

The Mining Journal

RAILWAY AND COMMERCIAL GAZETTE

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES

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MR. JAMES H. CROFTS, STOCK AND SHARE BROKER,
No. 1, FINCH LANE, CORNHILL, LONDON, E.C.
(SUCCESSOR TO JAMES CROFTS).
Established 1842.

BUSINESS transacted in every description of BRITISH AND FOREIGN Stocks and Shares, and in all COLLIERY and IRON Shares.
SPECIAL BUSINESS in shares not having a general market value.

SPECIAL DEALINGS in the following:
Alhambra Palace. Glaisdale Quarry. Peavor.
Bamfylde. Javali. Pennerley.
Bilson and Crump. Laidale Chemical. Palmer's Shipbuilding.
Cardiff and Swansea. Law's Chemical. Sheepbridge.
Chapel House. Merry and Cunningham. Thorp's Gawber.
Clee Hill. Newcastle Chemical. United Bituminous.
Diamond Fuel. New Sharlston. Welsh Freehold.
Emma. Parys Mountain. Whitehaven.
Flagstaff. Positive Assurance. West Tankerville.
Business transacted in all descriptions of MISCELLANEOUS shares.
Bankers: City Bank, London; South Cornwall Bank, St. Austell.

MR. W. H. BUMPUS, STOCK AND SHARE BROKER,
44, THREADNEEDLE STREET, LONDON, E.C.

Transacts business, at best market prices, Mining Shares of all kinds, British, Foreign, and Colonial Stocks and Bonds, Railways, Banks, Gas, and Insurance Shares, Colliery and Iron Companies, Telegraph, Tramway, and Miscellaneous Shares, and all Securities dealt in on the London Stock Exchange.
Purchases and Sales negotiated in Unmarketable Stocks and Shares.
Speculative Accounts opened for the Fortnightly Settlement.

W. H. B. has SPECIAL BUSINESS in the undermentioned:
25 Bamfylde, £2. 20 Gawton. 100 Rookhope, 12s. 6d.
100 Bog. 10 Great Laxey, £11½. 20 So. Condurrow, £4¼.
40 Birdseye Creek, £2½. 20 Hingston, £1 16s. 6d. 150 So. Aurora, 13s. 6d.
10 Bilson and Crump. 25 Ladywell, £2 18s. 9d. 50 So. Prin. Patrick, £2½
70 Chontales, 11s. 6d. 50 Lovell (Tin). 50 So. Prin. Patrick, £2½
50 Cathedral, £1. 70 Last Chance, 21s. 6d. 15 South Carn Brea.
10 Cape Copper, £30½. 20 Tylwyd, 20s. 6d. 20 Thorp's Gawber.
20 Colorado, £3 10s. 3. 30 Marke Valley, 31s. 6d. 90 Tecoma, 11s.
40 Chapel House, £4¼. 60 Malpas, 21s. 15 Tankerville, £6 19s. 6d.
100 Clee Hill Coll., 8s. 6d. 150 Old Treburrget, 10s. 6d. 1 Tincroft, £31.
25 Cardiff and Swansea. 50 Prince of Wales, 10s. 3. 40 Uni. Mexican, £2½.
30 Cedar Creek, 38s. 6d. 50 Prince Patrick. 25 Van Consols, £2½.
3 Dolcoath. 20 Parys Mountain, 7s. 3d. 20 W. Esqair Lie, £1 18s. 9d.
15 Devon Gt. Con., £2½. 200 Plympton, 13s. 6d. 10 W. Greenville, £5.
19 East Lovell, £10½. 100 Port Phillip, 13s. 6d. 20 West Great Work, 21s.
60 Emma (Silver), 23s. 6d. 55 Penstruthal, 13s. 9d. 50 West Maria, 8s. 9d.
60 East Canada, 21s. 6d. 3 Providence. 50 W. Tankerville, 10s. 6d.
25 Eberhardt, £5 3s. 9d. 2 Richmond, £6½. 100 Yorke Penin., 11s. 6d.
30 Flagstaff, £1½. 15 Roman Grav., £13½.
50 Frontino, 11s. 9d.
A Stock and Share List forwarded to bona fide Investors free on application.
Bankers: The National Provincial Bank of England, E.C.

MR. E. J. BARTLETT, STOCK AND SHARE DEALER,
No. 30, GREAT ST. HELEN'S, LONDON, E.C., transacts business at best prices in every description of security.
BUYER OF SOUTH CONDURROW shares.

JOHN RISLEY (SWORN), STOCK AND SHARE BROKER,
77, CORNHILL, LONDON.

Turkish Six Per Cents. of 1854, 1855, 1862, 1865, 1871, and 1873 specially recommended; Wheel Grenville and Treigh Wood, also Wheel Peavor and Crebor shares.
Business transacted at the following rates of commission:—Foreign Stocks, ¼ per cent.; and Mining Shares of £4 each and upwards, 1¼ per cent.; under £4, 1s. per share.

FERDINAND R. KIRK, STOCK BROKER,
5, BIRCHIN LANE, E.C.
Consols, Foreign Bonds, Railways, and every security quoted on 'Change bought and sold. Fortnightly accounts opened.
Bankers: London and Westminster, and City Bank.

SPECIAL BUSINESS in the following:
5 Bagnall John, £7½. 10 Ebbw Vale, £23. 5 Palmer's Shipbldg., £19
50 Bilson and Crump, 10½. 15 Fairbairn Engli., £3½. 10 Peisall Coal, £12½.
20 Birdseye. 20 Flagstaff. 20 New Sharlston, £8.
30 Cardiff & Swan., £4¼. 60 Glaisdale Quarry, 21s. 5 Sheepbridge, £24.
15 Cedar Creek. 10 Frontino, 12s. 6d. 10 Silkstone Fall, £2.
5 Central Swedish, £5½. 5 Gt. Western Col., £17. 10 Silkstone Dodworth, £22.
10 Chapel House, £4¼. 25 Gold Run, 10s. 15 Sweetland, £3.
15 Chillington Iron, £4½. 10 Hopkins Gilkes, £12. 20 Thorp's Gawber, £15½.
40 Clee Hill, 8s. 50 Javali, 4s. 20 Thorp's Gawber, £15½.
10 Darlington Iron, £7½. 5 Nant-y-Glo, £46. 60 Tylwyd, 21s.
5 Denton Colliery, £5½. 20 Newport Aber., £4½. 30 Welsh Freehold, £3.
5 Devon Consols. 10 Orig. Hartlepool, £9. 10 Whitehaven Iron, 5½.
10 Pennerley, £1½.

MR. WILLIAM WARD
(Late WARD and LITTLEWOOD),
CROSBY HOUSE, 95, BISHOPSGATE STREET WITHIN, E.C.,
DEALS in ALL KINDS of STOCKS and SHARES, for cash or the account.

MR. HENRY MANSELL, STOCK AND SHARE DEALER,
14, GREAT WINCHESTER STREET, LONDON, E.C.

MR. THOMAS THOMPSON, JUN., 1, PALMERSTON BUILDINGS, BISHOPSGATE STREET, LONDON, E.C.
Some valuable hints as to the purchase of mining shares will be found in Mr. Thompson's "Investment Circular" for November now ready, post free, price 6d.

MR. W. TREGELLAS, 122, BISHOPSGATE STREET WITHIN, E.C.
Deals in all descriptions of Stocks and Shares at close market prices.

MESSRS. SMITH AND CO., 126, BISHOPSGATE STREET WITHIN, LONDON, E.C.
Messrs. SMITH and Co. Transact Business in every species of Stocks and Shares. SPECIAL BUSINESS in Chapel House, Blaen Cwmbach, Alltani, and Clee Hill Collieries; Malpas, Malabar, Sweetland, and Birdseye Creek; Great Laxey, Tylwyd, and Grogwinion and Mellindur Valley Shares.
Messrs. SMITH and Co.'s "Investment Circular" may be had on application.

MESSRS. ENDEAN AND CO., STOCK AND SHARE DEALERS, 85, GRACECHURCH STREET, LONDON, E.C.
Government and every negotiable Stocks dealt in for cash or account. Order and telegrams punctually attended to.
We advise immediate application and purchase of the BAMFYLDE and LLAN-WE shares. A rise in price is inevitable.

MESSRS. W. DUNN AND CO., STOCK AND SHARE DEALERS, 3 AND 4, GREAT WINCHESTER STREET BUILDINGS, LONDON, E.C.
Orders received and commissions executed.
Bankers: National Provincial Bank of England.

MR. GEORGE BUDGE, STOCK AND SHARE DEALER,
No. 4, ROYAL EXCHANGE BUILDINGS, LONDON, E.C.

MR. WM. MARLBOROUGH, STOCK AND SHARE DEALER,
90, BISHOPSGATE STREET WITHIN, LONDON, E.C. (Established 18 years), WILL SELL the following SHARES at prices annexed:—
50 Almaden, 14s. 35 Marke Valley, 29s. 20 Tankerville, £6 18s. 9d.
20 Birdseye, £2 7s. 50 Malpas, 18s. 9d. 50 Tylwyd, 20s.
20 Carn Brea, £5½. 50 Malabar, 12s. 3 Tincroft, £29½.
5 Cook's Kitchen, £2½. 40 Parys Mount, 6s. 3d. 40 Tecoma, 9s.
30 Devon Consols, £2 13s. 9d. 50 Prince Patrick, £2½. 2 Van, £21½.
15 Eberhardt, £4½. 50 Port Phillip, 17s. 25 Van Consols, £2 7s.
60 Frontino, 10s. 25 Pennerley, 28s. 6d. 5 W. Chiverton, £2.
30 Flagstaff, £1 16s. 3d. 50 Penstruthal, 12s. 9d. 50 West Maria, 8s. 6d.
20 Hingston, £1 8s. 9d. 50 Plympton, 13s. 6d. 5 Wheel Peavor, £3½.
10 Great West Van, 13s. 6d. 10 Roman Gravels, £13½. 50 Wheel Grenville, £4¼.
50 Sweetland, £2 18s. 20 Richmond, £6½. 5 Wheel Kitty, £5½.
3 South Frances, £14½.

INVESTMENT OR SPECULATION.—A SELECTED LIST OF RAILWAYS, BANKS, MINES, COLLIERIES, COLONIAL SECURITIES, FOREIGN GOVERNMENT BONDS, &c., forwarded to bona fide investors on application. In addition to the high rate of interest many of the above are paying, there is now every probability of a great rise in market value.
P. WATSON, STOCK AND SHARE DEALER,
79, OLD BROAD STREET, LONDON.
(Three doors only from Hercules-passage, entrance to the Stock Exchange.)
Twenty-nine years' experience.
Bankers: The Alliance Bank, and the Union Bank of London.
References given and required (when necessary) in all the principal towns of the United Kingdom.

MR. T. E. W. THOMAS, SWORN SHARE BROKER,
3, GREAT WINCHESTER STREET BUILDINGS, E.C.
Established 1857.
The following are the latest prices at which business could be done. Holders of mining shares desiring a market quotation for their stock can have their application answered in this list if received not later than Four P.M. on Fridays:—

Buyers.	Sellers.	Buyers.	Sellers.
Bamfylde	£ 13½ .. 2	Prince of Wales	9s. 6d. 10s. 6d.
Birdseye Creek	2½ .. 2½	Providence	£ 4½ .. 4½
Carn Brea	52½ .. 55	Richmond .. (cum div.)	6½ .. 6½
Chontales	10s. .. 12s. 6d.	Roman Gravels	13 .. 13½
Clee Hill Colliery	5s. .. 10s.	Rosewall Hill	5s. 6d. 6s. 6d.
Cook's Kitchen	8 .. 9	South Carn Brea	1½ .. 1½
Devon Great Consols ..	2½ .. 2½	South Condurrow	3½ .. 4½
Dolcoath	47 .. 49	So. Roman Gravels	12s. 6d. 10s.
Eberhardt	4½ .. 4½	Sweetland Creek	2½ .. 3
East Lovell	13½ .. 14	Tankerville	8½ .. 7
Flagstaff	13½ .. 17	Tincroft	28 .. 30
Gawton	10s. .. 15s.	Van Consols	2½ .. 2½
Gold Run	10s. .. 11s.	West Basset	8 .. 8½
Herodfoot	3 .. 3½	West Chiverton	1½ .. 2½
Hingston Down	1½ .. 1½	West Tolgus	72 .. 74
Ladywell	2½ .. 2½	Wheel Grenville	4 .. 4½
Marke Valley	27s. 6d. 30s.	Wheel Jane	4 .. 4½
Malabar	10s. .. 12s. 6d.	Wh. Kitty (St. Agnes).	4½ .. 5½
Malpas	19s. .. 21s.	Wheel Peavor	7 .. 7½
Parys Mountain	5s. 6d. 6s. 6d.	Wheel Uny	3½ .. 3½
Pennerley	13½ .. 1½		

MR. E. CHARTERS, 36, NORTHUMBERLAND STREET, CHANCERY CROSS, LONDON, CAN DO BUSINESS in the FOLLOWING SHARES, free of commission:—

20 Almaden, 12s. 6d.	10 Last Chance, 18s. 9d.	20 Russia Copper, £5.
25 Bamfylde, £1½.	50 Lovell, 19s.	20 Roman Gravels, £13.
70 Bog, 3s.	70 Marke Valley, £1¼.	20 Rossa Grande, 9d.
5 Birdseye Creek, £2½.	50 Mid-Moonta, £4.	40 Sierra Buttes, £2.
3 Carn Brea, £54.	60 Melindur Valley, £3.	50 So. Aurora, 9s. 6d.
50 Cedar Creek, £1½.	10 Minera, £23.	25 So. Roman Grav., 12s. 6d.
5 Cardiff & Swan., £4¼.	80 Malabar, 11s. 9d.	20 Tankerville, £6½.
50 Cathedral, £1.	40 Malpas, 18s. 9d.	8 Thornhill Reef, 10s.
3 Dolcoath, £48½.	80 Medlyn Moor, 20s.	50 Tecoma, 10s.
80 Emma, £1.	30 New Quebrada, £3.	20 Van Consols, £2.
10 East Lovell, £10.	70 New Pacific, 8s. 6d.	50 West Chiverton, £2.
30 East Grenville, 7s. 6d.	25 New Sharlston, £10.	70 West Maria, 8s. 9d.
50 East Basset, £10.	50 Old Treburrget, 10s. 9d.	10 West Basset, £2.
50 Flagstaff, £1½.	50 Plympton, 13s. 6d.	10 Wheel Kitty, £5.
10 Great Laxey, £10½.	60 Pennerley, £1½.	25 W. Tankerville, 11s. 6d.
30 Glasgow Caradon, £1½.	50 Pedn-an-drea, £8.	10 Wheel Crebor, 18s. 9d.
40 Green Hurth, £5½.	60 Rica, 6s. 3d.	6 Wh. Greenville, £4¼.

G. E. SIMPSON, STOCK AND SHARE DEALER,
6, GREAT WINCHESTER STREET BUILDINGS, LONDON, E.C., will SELL the FOLLOWING SHARES, free of commission:—

50 Birdseye Creek, £2½.	10 East Lovell, £10½.	60 Pennerley, £1½.
4 Bamfylde, £2¼.	20 East Basset, £10.	100 Prince of Wales, 10s. 6d.
100 Cathedral, 18s.	70 Flagstaff, £1 16s. 3d.	70 Penstruthal, 12s. 6d.
40 Chapel House, £4¼.	40 Gawton, 15s.	20 Roman Gravels, £13½.
75 Chontales, 11s. 3d.	50 Hingston, £1 8s. 9d.	30 Richmond, £7.
20 Clee Moor.	45 Ladywell, £2 17s. 6d.	25 Sweetland Creek, £3.
50 Cedar Creek, £1½.	50 Malpas, 20s.	20 S. Condurrow, £13 9d.
25 Devon Consols, £2 16s. 3.	40 Marke Valley, 28s.	20 Tankerville, £6 18s. 9d.
3 Dolcoath, £5.	50 Malabar, 11s.	30 Wheel Kitty, £5½.
5 Eberhardt, £5.	75 Parys Mountain, 6s.	15 Wheel Peavor, £6 18s. 9d.

SPECIAL BUSINESS in the Live Stock Insurance Company of Great Britain (Limited), and the Crystal Palace District Cemetery Company (Limited).

MESSRS. HARVEY, JORDAN, AND CO.,
MINING AGENTS, ACCOUNTANTS, AUDITORS,
MANAGERS OF PUBLIC COMPANIES, &c.
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HAVE OPENED, at their Offices, a REGISTER OF MINERAL and OTHER PROPERTIES, both ENGLISH and FOREIGN. Particulars inserted therein for vendors, and the same, with plans and reports, kept for reference to, by investors.

HARLAND AND CO., STOCK AND SHARE DEALERS,
235 and 236, GRESHAM HOUSE, LONDON, E.C.
Transact business in Kingston Valley, Chapel House, Alltani, Cardiff and Swansea, Welsh Freehold, United Bituminous, and Clee Hill Collieries—Tankerville, West Tankerville, Lovell, Denbighshire, Tylwyd, Roman Gravels, Birdseye Creek, Sweetland Creek, and every description of Stocks and Shares.
Circular and Daily Price-List gratis.
Bankers: London and County Bank.

MR. JAMES HUME, STOCK AND SHARE BROKER,
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From 10 to 20 per cent. is obtainable from Government Bonds—quite safe—several strongly recommended.
The "Investment Record," now ready, post free on application, contains a select list of rising investments.
SPECIAL BUSINESS in Richmond shares, for cash or account.
Business in all stocks and shares transacted by post or telegram, for cash or account.

MR. JAMES STOCKER, 2, CROWN COURT, THREADNEEDLE STREET.
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SPECIAL BUSINESS in the following:—		
40 Bamfylde.	30 Hingston, 30s. 9d.	20 South Condurrow.
5 Bellavista, offer wntd.	70 Javali, 6s.	25 S. Prince Patrick.
20 Bilson and Crump.	25 Last Chance, 18s. 9d.	60 So. Rom. Gravels.
30 Birdseye, 48s. 9d.	60 London and California.	80 Sweetland, 6s. 6d.
50 Bog, 3s.	15 Lovell (Tin), 19s.	45 Thornhill Reef, 9s. 6d.
4 Carn Brea, £54.	65 Malabar, 12s. 6d.	25 Thorp's Gawber, £15½.
30 Cardiff and Swansea, £4 3s. 9d.	80 Malpas, 20s.	100 Tecoma, 10s.
75 Chapel House Col. £4¼	50 Marke Valley, 30s.	25 Tankerville, 20s. 6d.
40 Chicago.	30 Newfoundland.	25 Tankerville, £7½.
70 Chontales, 12s.	40 New Consols, 40s.	4 Tincroft, £29½.
45 Clee Creek, 38s.	40 New Quebrada, £3 6s. 3	50 United Bituminous.
60 Clee Hill Coll., 8s. 3d.	25 Prince Patrick.	70 Van Consols, 48s. 3d.
10 Devon Great Consols.	90 Parys Mountain, 7s. 3d.	40 Wedgwood Coal.
65 Don Pedro.	40 Pennerley, 29s.	30 W. Tankerville, 11s.
15 East Lovell, £10½.	100 Penstruthal.	5 West Tolgus, £73½.
35 Eberhardt, £5.	130 Port Phillip, 16s. 3d.	5 West Basset, £8½.
30 Emma, 23s. 9d.	30 Roman Gravels, £13½	35 W. Esqair Lie, 42s. 6d.
50 Eschequer Gold.	600 Rossa Grande, 9d.	25 Wheel Grenville.
45 Flagstaff, 36s. 3d.	75 Rica, 7s. 6d.	10 Wheel Kitty, £5½.
100 Frontino, 10s. 9d.	25 Silkstone Fall, 31s.	10 West Chiverton.
45 Glaisdale Quarry.	25 Sharlston Col., £2½.	20 Wheel Peavor, £7.
100 Gold Run, 10s. 9d.	100 South Aurora, 12s. 3d.	25 Whitehaven Iron.
45 Gawton.	35 So. Carn Brea, 33s. 9d.	25 Welsh Freehold, £3½.
20 Grogwinion.		50 Yorke Peninsula.

Bankers: London and Westminster.

MR. CHARLES THOMAS,
MINING AGENT, STOCK AND SHARE DEALER,
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Birdseye.	Tecoma.	Sweetland Creek.
Emma.	West Wheal Gorland.	Malpas.
Flagstaff.	Gold Run.	Butler.
Kitty (St. Agnes).	Pacific.	Rica.
Cedar Creek.	Malabar.	West Esqair Lie.

Parties wishing to purchase or sell in the foregoing are requested to make early application. PENNINGTON AND CO., SWORN BROKERS.

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MESSRS. PENNINGTON AND CO.'S "MONTHLY RECORD OF INVESTMENTS," published on the first Thursday in each month, contains an exhaustive Review of the British and Foreign Stock and Share and Money Markets, &c., with an enumeration of safe investments, paying from 15 to 20 per cent. Price 6d. per copy, or 5s. annually.
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MINING AND MECHANICAL ENGINEERS,
3, QUEEN'S BUILDINGS, QUEEN VICTORIA STREET, LONDON, E.C.;
AND
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(Late GROSVENOR & CO.),
STOCK AND SHARE BROKERS
88, PORTLAND STREET, MANCHESTER.

MESSRS. STANLEY AND COMPANY,
MINING SHARE BROKERS AND FINANCIAL AGENTS,
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New Fowey should be secured at once.—Thirty years' practical experience.
Bankers: South Cornwall Bank, St. Austell, Cornwall.

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FINANCIAL AGENT,
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CAPTAIN ABSALOM FRANCIS,
MINING AGENT, ENGINEER, AND SURVEYOR.
GOGINAN, ABERYSTWITTH.

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CAMBORNE, CORNWALL, transacts business in every description of shares at close market prices of the day.
Dolcoath, Tincroft, Carn Brea, West Frances, Cook's Kitchen, and West Basset shares should be bought at present prices.

CORNISH MINE SHARE MARKET.—During the past week the share market has been rather quiet, with not much business doing, in consequence of the near approach of the Banca sale. The prominent shares of the week was Dolocoth, in which a large business has been transacted at from 48½ to 49½. South Carn Brea declined from 37s. 6d. to 40s. to 30s., 34s. The following are the closing prices:—Botallack, 45 to 55, but little dealt in. Carn Brea quiet, 54 to 56. Cook's Kitchen not much doing, 9 to 9½. Dolocoth largely dealt in, at from 48½ to 49½, and

continue in good demand. East Pool advanced from 8, 8½ to 9, 9½, but have declined to 8½, 9, to which they close flat. East Lovell nothing doing, 10 to 11. Providence weaker, 4½ to 5. South Condurow unaltered, 4½ to 4¾; several additional circulars have been sent out by both sides asking for proxies to be used at the meeting in London, on Dec. 2. South Croft shares have advanced since the meeting to 9½, 10. South Frances, 14 to 15. St. Ives Consols nominally 6 to 7. South Carn Breas have declined from 1½, 2, to 1½, 1¾, and but a small number of shares, have changed hands. In Tinicrofts a moderate amount of business has been done at from 29½ to 30½. West Bassels have declined from 8½, 13½ to 7½, 8½, at which they close flat. West Setons more enquired for, at 29½ to 29. West Frances, 9 to 10. In West Tolgus a small business has been done at from 70 to 74, closing 71 to 73. Kitty (St. Agnes), 5 to 5½, unaltered. Wheel Unys quiet 3½ to 3¾. In Wheel Peavor, a fair business has been done at 6½ to 6¾, where they close.—*West Briton.*

FOREIGN MINES.

ST. JOHN DEL REY.—The directors have received the following telegram from Morro Velho, dated Rio Janeiro, Nov. 18:—Produce eleven days of October (last division), 11,110 oits.; yield, 9.2 oits. per ton; produce per diem, 1010 oits. Produce for the month of October, 28,700 oits.; yield, 9.2 oits. per ton. Rains have set in.

Telegram, Nov. 22.—Produce ten days (first division) of November, 9900 oits.; yield, 8.7 oits. per ton; produce per diem, 990 oits. Profit for October, 6100.

MINERAL HILL.—Mr. Oakes, the superintendent at the mines, writes, under date Nov. 2.—We have raised during the week 35 tons of ore, of an average grade of \$35 per ton.

LONDON AND CALIFORNIA.—By telegram just received from the agents, the ledge discovered at the Original Amador Mine is shown to be 100 ft. in length; width and depth yet to be proved.

RICHMOND CONSOLIDATED.—Cablegram from the mine at Eureka, Nevada; Hall, London.—Week's run, \$52,000.

RIO TINTO.—Nov. 4: Removal of overburden per week, 3206 cubic metres; total to date 170,144 cubic metres—about 425,000 tons. Number of hands employed at mines, 1134. The steamship Gogo is expected at Liverpool with 150 tons of cement copper, sold for arrival, and about 250 tons of pyrites. The progress of the contractors with the railway is so satisfactory that the directors rely upon the completion of the line by Midsummer.

BATTLE MOUNTAIN.—On the 5th inst. the agent reports: In the 138, north of the new shaft, which has been communicated with Pearce's winze, and is now driven a few feet beyond it, the ground is of a similar character to that in the 113 above, and for the same reason is suspended, and the men placed to drift in the 145, north of Daniel's winze, the ledge producing some good stones of copper ore. The stope in the back of the 188 are nearly exhausted. This will make against our returns of ore, and we shall be compelled now to stope some of the back of the 260 drift at Cook's winze. This is unfortunate, inasmuch as this drift is not in communication with the new shaft. This, however, will be accomplished as early as possible. The 260 ft. drift, north of the new shaft, having been commenced a few days prior to my arrival, on the 31st ult., a plat is being cut at the same time. As soon as the plat is finished I anticipate good speed. The ledge at this, the deepest point of the mine, is, I think, larger than for some time, and is of a very promising character, similar to its appearance in the 188 before meeting with the ore there—a rich-looking gossan, with stains of copper. Cook's winze, as before advised, has been sunk to the 260 ft. level, and drifts, both north and south of it, have been commenced. In the 260, south of Cook's winze, now in about 17 ft., the ledge produces some good ore in red oxide principally, and this is very important, inasmuch as taking this the ore passed through in the winze in sinking it would seem to be indicative of a bigger deposit than was in the 188, and so far as I can now judge the prospects seem more cheering than at any time since the fine returns of ore made from the large courses of ore we had in the 73 and elsewhere. I expect the returns of ore will vary according to the 260, at Cook's winze, for until this drift is communicated with the new shaft no regular stoping arrangements can be made for regulation of returns, and hence I hope you will excuse me from feeling forced to do so. The 260 ft. drift, north of the new shaft, at a depth of 260 ft., the ledge is assuming more of its large size and rich ore, as seen in the 73. I think in the next deeper level, when we can get there (say), at the 320, that the ore will still further increase in quantity. With the quality we should feel very much satisfied: 193 sacks raised.

NEWFOUNDLAND.—J. Nancarrow, Nov. 11: Fortnightly Report: Cooper's shaft is now sunk below the 20 fm. level 13 ft. I purpose sinking a few feet more for a fork, and then commence driving east and west on the course of the ledge; the ledge now seen is fully 4 ft. wide, and of a more promising character than I have ever seen. In addition to the branch of lead on the footwall, lead is disseminated through the ledge for near 2 ft. in width, and if these drivages do not open out producing good ore, it is not at present in the mine. The ledge is fully 1½ ton of ore per fathom. Being a short of men to keep on all points underground the 10, east of Cooper's shaft, has not yet been resumed, but will be as soon as we get near. The ledge in the winze sinking below the 10, east of McCoy shaft, still looks well, and will produce fully 4 tons of lead per fathom, leaving equally as rich ground on each end of the winze, which will be available for stoping in a few months. This is really a good-looking thing, and being worked by a full staff of men from Sunday night, 12 P.M., to Saturday night, 10 P.M. The new stope in the 20, east of McCoy shaft, looks about the same as last reported, and still produces 1 ton of ore per fathom; when the stope is extended about 5 ft. further west we shall get into richer ground. The ledge in the 20, east of this shaft, is very much improving in its character, composed of a beautiful mineral-bearing quartz, containing a little lead. I daily look for an improvement. The same remark may be applied to the deep adit end, driving east of Doctor's shaft, which also contains a little lead at present.

Yesterday commenced a new stope in the roof of the shallow adit, east of White's shaft, but scarcely enough has been done to correctly state its value, but as far as I can see it will yield fully 1 ton of lead per fathom. These are all the underground points in operation at present, but as soon as we get more men, who are gradually coming, we shall have several more places working.—The 10, east of Cooper's; the deep adit, west of Kelly's shaft, on north ledge; the shallow adit, east of White's and Kelly's shafts, which will have to be forced with all possible energy, for I plainly see depth is the future of the mine, and the sooner it is attained the better, but hitherto I may say you have been opening up a new mine, and now just got under way of working. Besides this, almost everything has got into a state of stalling, for instance, the breaking in the adit, which had been repaired for over 200 fathoms; and the water-course, which I spoke of in my last, which we had to make new for nearly 50 fathoms in length. These things took time, and required a large quantity of timber, and had we not bought a stock some little time ago we could not have repaired them, but I am happy to say these things are completed, and now numbered with the past, and the greatest things we have now to do is to erect a new saw-mill and lead floors, which will not cost much, most of the materials for each being on the mine. A new wharf is worthy of your consideration, which can be made when time will admit, and a great quantity of the material rendered cheap from the spoil heaps, when, no doubt, some tons of lead would be saved, and assist in paying expenses of the same. There is no doubt with proper attention to these things and the underground department good results will follow.

ALAMILLOS.—Nov. 18: The 30, west of San Francisco shaft, has a small branch of lead, worth ½ ton per fathom. The ledge in the 50, west of this shaft, is large, and contains good stones of ore, worth ¾ ton per fathom. The 85, west of Julian's winze, is being driven through a valuable ledge, worth 1½ ton per fathom. In the 85, east of Taylor's engine-shaft, the ledge became poor a few days ago, but it is improving again, and yields ¾ ton per fathom. The ledge in the same level west is poor, and the ground hard for driving through. The men in the 50, east of San Victor's shaft, are driving north to get under San Francisco. In the 40, west of Joaquin's winze, there has been a good ledge, but it has fallen off a little in value, and is now worth 1½ ton per fathom. The cross-cut in the 40, south of San Carlos shaft, is being driven to communicate with the above level. The ledge in the 50, east of San Carlos, contains a little lead ore. The ledge in the 40, east of Judd's engine-shaft, yields ½ ton per fathom. The 60, east of same shaft, is poor, and the granite hard for driving through. The 40, east of air-shaft, is in a small, poor ledge. The 30, west of Swaffield's shaft, is opening out a good piece of paying ground, now worth ¾ ton per fathom. In the 50 cross-cut, north of La Magdalena shaft, the granite is still hard for driving through. In Judd's engine-shaft, below the 80, the men are making good progress. The ground in San Victor's shaft, below the 50, is rather hard for sinking through. The sinking of San Adriano's shaft below the 75 is going on regularly. In Morris's shaft, below the 40, the ledge is regular and compact, yielding 1 ton per fathom. In Ricardo's shaft, below the 40, the ledge has improved in appearance and value, now worth ¾ ton per fathom. The ledge in Blas winze, below the 30, is unproductive, and the sinking slow through having water. The ledge in Jorge's winze, below the 40, has much improved, and yields 2 tons per fathom. Daniel's winze, below the 50, is unproductive; the men are making good progress. In Merino's winze, below the 30, the ledge yields ¾ ton per fathom; this is suspended for the present, and men put to cross-cut south to prove if there is part of the ledge standing there.

FORTUNA.—Nov. 18: Canada Inco's: The 100, west of Judd's shaft, is in a large and strong ledge, with good stones of ore, worth ¾ ton per fm. Nothing further has been met with in the 80, south of Henry's shaft. In the 50, west of San Pedro, the ledge contains stones of ore, but not of any actual value. The men are now opening the south ledge to prove if there be any more ledge. The ledge in the 60, east of San Pedro, are cross-cutting north to get under San Francisco shaft, when we hope to let down the water; the ledge in the end is worth ¾ ton per fathom. The ledge in the 15, east of San Francisco, has fallen in the last few days, and is worth at present ¾ ton per fathom. The ledge in the 40, east of this shaft, is split into two branches, each carrying a little lead, worth ¾ ton per fathom. In the 80, west of Kennedy's shaft, there are good stones of ore in the upper part of the end. The 90, west of Kennedy's shaft, is opening valuable ore ground, worth 2 tons per fathom, and getting easier for working, worth at present 1½ ton per fathom. In the 80, east of Caro's shaft, the ledge has fallen off in value, and now yields ¾ ton per fathom. The men in Judd's shaft, sinking below the 50, are getting on very well with this work. San Francisco shaft below the 50 is heavily watered; we have a strong party of men here.—Los Sildos: The 110, west of San Carlos shaft, continues in a small ledge, worth ¾ ton per fathom. There is no improvement in the large, and of a promising appearance, worth ¾ ton per fathom. The 110, east of Cox's shaft, produces 2 tons per fathom, and is throwing open a good length of valuable ore ground. In the 100, east of San Miguel, the ore ground is continuing much further east than in any of the upper levels; the ledge yields 1 ton per fathom. The vein in the 25, west of Swaffield's shaft, is very small, and contains occasional stones of ore only. In the 35, west of this shaft, the ground is disarranged, and the ledge unproductive. The 45, west of Palgrave's shaft, is in a large ledge, yielding good stones of ore, worth ¾ ton per fathom. The ledge in the same level east has fallen off in value during the past fortnight. In Buenos Amigos engine shaft, below the 110, the men are getting on satisfactorily. Palgrave's engine shaft, below the 45, yields 2 tons of ore per fathom; the ledge is small in the eastern end of shaft, but large and productive in the western end. Moderate progress is being made in Swaffield's shaft, below the 35, the ledge yielding 2 tons per fathom. London's winze, below the 100, is not so productive as it was; it yields 1½ ton per fathom, and the men are getting on rapidly. Oribe's winze below the 35 is going down in a very fine lead, and the ledge small, yielding ¾ ton per fathom. The ground in Merino's winze, below the 100, is unproductive, yielding ¾ ton per fathom. There is no improvement in Ricardo's winze below the 35. The trial department yielded the full complement of mineral in the past month, during which time there was no unusual fluctuation in the value of the stopes. The ordinary works at surface are going on very regularly, and the machinery is in good working order. We estimate the raisings for November at 350 tons.

LINARES.—Nov. 18: Pozo Ancho Mine: In the 100 fm. level, east of Warner's engine shaft, the ledge is very open, but not so productive as it was, now worth 1½ ton of lead ore per fathom. The 100, west of this shaft, is now in a large strong ledge, yielding 2 tons per fathom. The ledge in the 85, west of Crosby's shaft, is small and unproductive. The same level, west of Crosby's cross-cut, is worth 1 ton per fathom. The 75, west of Crosby's shaft, continues unproductive. The ledge in the 75, east of San Francisco's shaft, is small, containing a little ore. In the 65, east of this shaft, the ground is hard, and the ledge small and poor. The 65, west of San Francisco's, is opening up good stoping ground, worth 1 ton per fathom. The 55, west of this shaft, is in a small ledge, producing ½ ton of ore per fathom. There is no improvement in the 55, east of this shaft. No. 159 winze, below the 45, is holed to the 55; ledge worth 1 ton per fathom. No. 191 winze is holed to the 85 in a ledge worth 1 ton per fathom. The ledge in No. 194 winze, below the 85, is large and strong.—Los Quinientos Mine: The ledge in the 80, west of Taylor's engine-shaft, has fallen off in value, and is now worth ¾ ton of lead ore per fathom. In the 65, west of this shaft, the ground is hard, and spare for driving through. The ledge in the 80, east of Taylor's, is large, yielding good stones of lead ore. In the 65, east of this shaft, the ground is favourable and the ledge large, producing stones of ore. In the 55, east of Addis's shaft, the ledge is small, and of no value. In the same level, west of San Carlos shaft, the ledge is large and strong, consisting of calcareous spar, spotted with lead ore. The ledge in the 65, west of this shaft, is small and poor. In the same level east there is nothing to value. The ledge in the 55, east of Judd's shaft, is small, consisting of quartz and lead ore, worth ½ ton per fathom. In the 45, east of Judd's, the ledge is small, yielding a little lead, but not enough to value. The ground in San Carlos engine-shaft, below the 85, continues very hard, and spare for sinking. The ledge in Pablo's winze, below the 55, is quite unproductive at present. In Diego's winze, below the 55, the ledge has fallen off in value, and is now worth ¾ ton per fathom. The ledge in Gill's winze, below the 32, has also very much declined within the last few days, now worth ¾ ton per fathom. Pascual's winze, below the 45, west of Cox's shaft, is in a ledge yielding 2 tons per fathom. Checa's winze has been commenced below the 65, east of Taylor's engine-shaft, and in advance of the 80 end.

LANESTOSA.—Nov. 18: In Judd's shaft the plat is nearly completed, and the 80 metre levels are being opened, whilst the water prevents sinking for a fork below. In Ventilation winze, below the 60, south of Judd's shaft, the ground is improved, and producing saving work. The 60 metre level south has a very kindly ledge, worth ½ ton of lead and ½ ton of calamine per fathom, and the ore-bearing portion is increasing in size. No. 1 adit winze will probably be holed within a day or two; the ledge is worth ½ ton of calamine per fathom. The ledge in the intermediate level, north from No. 2 adit winze south, yields 1½ ton of calamine and 1 ton of lead ore per fathom. In the same level south the ledge is improving in character, and more constant in its yield, which is 1 ton of calamine and ½ ton of lead ore per fathom. The ground in the stope in the back of the 20 metre level north continues hard, and the vein of lead small, worth ½ ton of calamine and ½ ton of lead ore per fathom. The trial level from the stope has just reached the west wall of the ledge, and holed to the shaft, which ventilates this part of the work; value of the ledge ½ ton of calamine per fathom. The tribute pitches in the back of the Cave level are improving, and likely to open out a profitable piece of ground. Owing to the small quantity of ore coming from the stope only 10 tons of lead and about the same quantity of calamine have been dressed, and the people are now going over secondary stuff, accumulated during the past months.

LUSTITANIAN.—Nov. 17: Palhal: The ledge at Taylor's engine-shaft, below the 180, is 10 ft. wide, composed of quartz, with stones of ore in it. No. 96 winze, below the 70, east of River shaft, is holed to the 80; there is no stoping ground left here. In No. 98 winze, below the 130, west of Taylor's, the ledge is yielding 4½ tons of ore per fathom.—Levels on Basto's Lode: In the 180, west of Taylor's, the ledge is 9 ft. wide, composed of quartz, mudic, and stones of ore. The 180 west is suspended for the time; the ledge here is 9 ft. wide, composed of quartz. In the 170 west the ledge is worth 1½ ton per fathom. In the 150 east the ledge is 5 ft. wide, yielding ½ ton of copper and cobalt ores per fathom. East of River shaft, in the 120, the ledge is 4 ft. wide, composed of country, flookan, and small stones of ore. In the 110 the ledge is 2 ft. wide, composed of country and flookan. In the 90 the ledge is 1½ ft. wide, producing 1½ ton per fathom of good copper and cobalt ores. In the 70 the ledge yields ¾ ton of cobalt and copper ores, and in the 28 the ledge is 5 ft. wide, composed of loose quartz and asbestos. The adit cross-cut is suspended.—Slide Lode: In the 80, west of Taylor's, the ledge is 2½ ft. wide, composed of schist and flookan.—Carvalho: The ground in the 60 cross-cut, south of incline shaft, is without any change to notice. In the end there is another small branch of quartz, which underlies rather towards the south, and lets out some water, the increase of which in this branch corresponds with the decrease in the other branches before seen.

HORNACHOS.—A telegram has been received from one of the directors now at the mines, stating that they are sending off 20 tons dressed ore of 40 per cent. lead and about 120 oza. silver per ton; also that 30 tons will be ready for shipment at the end of December, 20 tons January, 20 tons February, and more after. Mines opening out well.

MENZBERG.—R. K. Roskilly, Nov. 25: We are pushing forward the driving of the 45 cross-cut with vigour, and the ground still maintains that favourableness as reported on last week. This level is already extended about 2 fms. We have no other change calling for remark throughout the mine.

OFFICIAL REPORTS ON EXPLOSIVE SUBSTANCES.

The recent explosion of gunpowder in London itself, and the evidence given and disclosures made at the inquiries, strengthened by the verdict of the Coroner's inquest, have once again awakened public attention to the unknown perils continually being run, and vividly reminded the inhabitants of the metropolis in particular of the urgent necessity which exists for the control and regulation, by strict laws, of the storage and transit of gunpowder and other explosives.

A review of the steps which have been taken of late towards the attainment of that desirable object, showing also the nature of the agents to be dealt with, the risks involved, and the difficulties attendant upon the treatment of the whole subject, may, therefore, be of interest to our readers. Subsequent to the proceedings of various War Office Committees, a Select Committee of the House of Commons was appointed last session to enquire and report; and the result will be found—set forth so plainly that all who run may read—in two important public documents, Parliamentary Bluebooks that have recently been published—"Reports on the Necessity for the Amendment of the Law relating to Gunpowder and other Explosives, with suggestions for a new Act," by Vivian Dering Majendie, Major R.A., 1874, presented to both Houses of Parliament by command of Her Majesty; and "Report from the Select Committee on Explosive Substances, together with the Proceedings of the Committee, Minutes of Evidence, and Appendix, 1874," ordered by the House of Commons to be printed. This latter document, in particular, has been made the text of sundry press homilies, seeking to make capital out of its revelations in connection with the fatal explosion at the Regent's Canal; but we venture to think that the subject has scarcely been so exhaustively treated as it merits, wherefore a summary of the real lessons to be learnt therefrom may not be devoid of interest or value.

Considering that the Bluebooks referred to contain 478 pages of matter, it must be evident that the subject is a very wide one; and, indeed, it will be found that the question of the transport of gunpowder through the metropolis, to which attention has more especially been attracted, is only one phase thereof, and may almost be regarded as a mere collateral issue. In addition to transport, there are also the questions of manufacture and storage; and, moreover, gunpowder is but one among many explosives—to wit, dynamite, guncotton, cotton-gunpowder, lithofracteur, nitroglycerine, and a host of minor and less known substances, such as pudrolithe, Schultze's powder, Horsley's and Brain's blasting powders, &c., whereof the Select Committee enumerate at least a score.

Here are a variety of blasting agents, whereof the respective and relative merits and demerits require to be made known, especially to mine and quarry owners; and upon these and many other points of interest relating to explosives, their nature and properties, the defects and anomalies of legislation, the unknown risks to which the public, unconscious of their danger, are at all times exposed, &c., the two reports above named bristle with valuable information, frequently of a startling character. In presenting the following résumé thereof we shall in all cases give the authority for any particular statement, without encumbering it with continual references to the reports where they appear.

As an essential preliminary, it may be noted that the Select Committee have directed their attention to the following explosive substances, as classified:—1. The gunpowder class; 2. the nitro-explosive class; 3. the chlorate explosive class; and 4. the fulminate explosive class. Under the first class the gunpowder explosives are defined as any preparation formed by the mechanical mixture of a nitrate with any form of carbon, or with any carbonaceous substance not possessed of explosive properties, with or without sulphur, and whether or not mechanically mixed with any other non-explosive; herein are specified gunpowder, ordinarily so called—which may more distinctly be called black powder—and substances comparatively little known, pyrolithe, pudrolithe, and poudre-saxifragine. The second class is defined as any chemical compound possessed of explosive properties, or capable of combining with metals to form an explosive compound, which is produced by the chemical action of nitric acid (with or without sulphuric acid), or of a nitrate mixed with sulphuric acid, upon any carbonaceous substance, and whether or not subsequently mixed mechanically with other substances, this class being subdivided into two, the first division comprising any

chemical compound, or mechanically mixed preparation, consisting wholly or partly of nitroglycerine, or other liquid nitro-explosive, such as nitroglycerine, dynamite, lithofracteur, and the less known duraline, glyoxiline, and nitrate of methyl. The second division comprises guncotton, cotton-gunpowder, Schultze's powder, and the less known gun paper, xyloidine, gun sawdust, nitrated guncotton, nitromannite, picrates, and picric powder. The third class comprises all preparations containing a chlorate, mechanically mixed with any form of carbon or carbonaceous substance, with or without sulphur, a nitrate, or a sulphuret; also in two divisions, in the first appearing Horsley's and Brain's blasting powders, and any chlorate preparation consisting partly of a liquid nitro-explosive. In the second, Horsley's original blasting powder, and the following little known preparations:—Erhardt's powder, German gunpowder, Reveley's powder, Hochstadter's and Reichen's blasting charges, tautonite, chlorated guncotton, &c. The fourth class, fulminate explosives, is defined as any chemical compound or mechanical mixture, which, from its great susceptibility to detonation, is suitable for employment in percussion caps or any other appliances for developing detonation, or which, from its extreme sensibility to explosion, and from its great instability (i.e., readiness to undergo chemical decomposition from very slight exciting causes), is especially dangerous. These classified in two divisions—the first, comprising the fulminates of silver and mercury, phosphorus compounds, &c.; and the second, fulminating gold and silver, the chloride and iodide of nitrogen, diazobenzol, and its nitrate. In addition to the foregoing four classes—5, ammunition, such as cartridges, fuses, rockets, &c.; and 6, fireworks, also met with attention; but inasmuch as our present object is to investigate the question of explosives, simply in its purely industrial aspect—i.e., for blasting purposes, to the exclusion of sporting and military purposes; and as many of the compounds and substances named are practically laboratory elements, of little importance from a practical point of view it will scarcely be necessary for us to follow the Select Committee's enquiries over the whole field of their purview; and, indeed, it will be found that attention may be limited to the chief explosives of the first three classes, comparatively few in number, comprising ordinary gunpowder, dynamite, lithofracteur, nitroglycerine, and guncotton.

Generally, the results of the Select Committee's enquiry may be summed up in their own words, as follows:—The law, as contained in five public Acts, does not make adequate provision for the manufacture, storage, and transport, of many of these explosives; nor for the safety of the public, or the persons employed in the making, keeping, carriage, and importation of those explosives, while some of the Acts impose, in some respects, unnecessary restrictions, and consequently further legislation is required. No adequate provision is made for the public safety as to the proper package or modes of conveyance for explosives when transported from one place to another, or for forbidding the transport, the loading and unloading, of dangerously large quantities through cities and populous places.

Read in the lurid light of the recent gunpowder explosion on board the barge Tilbury, on the Regent's Canal, no human being—except, perhaps, a gunpowder maker or a canal manager—can take exception to the soundness of this conclusion, which seems prophetic.

We learn further, with respect to the retail stores of explosives, that, except in regard to the amount which may be kept, they are wholly unregulated, and the trade may be carried on without license, registration, or supervision of any sort or kind whatever. In reference to nitro-explosives (class 2) the Nitroglycerine Act, 32 and 33 Vic., cap. 113, wholly forbids the manufacture of nitroglycerine preparations and compounds, except by license from the Home Secretary; and there is no adequate legal provision for regulating the manufacture, storage, transport, importation, or shipment, of explosives of this class, while the law relating to the keeping, carriage, importation, and exportation of some preparations of nitroglycerine (such as dynamite) is unnecessarily restrictive as compared with the legislation relating to other explosives.

In submitting, in conclusion, a summary of suggestions by Major Majendie, as modified and adopted by themselves, as to the subject matters for legislative action, the Select Committee again reiterate that the law relating to the making, keeping, carriage, and importation, of gunpowder, nitroglycerine, ammunition, fireworks, and all substances of an explosive nature, does not make adequate provision for the safety of the public or of the persons employed; and further legislation is urgently required with a due regard to the necessities of the trade. Among the said suggestions it is proposed to provide that railway and canal companies shall have power to frame bye-laws for regulating the loading and carriage of explosives, the place, time, and mode thereof, the amount to be carried, and the necessary precautions; or in their default the Home Secretary, or the Board of Trade, shall be empowered to enforce the making of, or to make, such bye-laws, where deemed necessary. There is, of course, the customary and inevitable tribute to "vested interests," in the shape of reservations, whereof many appear to be exceptional, and may probably lapse quietly when the time for action arrives—in view of what we venture to deem the higher vested interest of the community at large, collectively and individually, in safety and protection to life and property.

By way of commentary on, and illustration of, the Select Committee's conclusions, a brief statement of some of the existing anomalies, as recorded, will be found important and interesting. In regard to the absence of legislation in respect of the manufacture, storage, transport, &c., of several groups of explosives—gunpowder, by itself or in the applied form of ammunition, fireworks, &c., is dealt with (more or less perfectly, and rather less than more) by the Gunpowder Act of 1860, 23 and 24 Vic., cap. 139, and the Gunpowder Amendment Acts of 1861 and 1862, 24 and 25 Vic., cap. 130, and 25 and 26 Vic., cap. 98, which also extend to ammunition, fireworks, percussion caps, fulminating mercury, and those miscellaneous explosives which are of the same character as fulminating mercury, but to no others. Nitroglycerine, and preparations of that substance, such as dynamite, lithofracteur, &c., are provided for by the Dangerous Goods Act 1860, 29 and 30 Vic., cap. 69, and the Nitroglycerine Act, 1869, 32 and 33 Vic., cap. 113. While, on the other hand, the manufacture apparently, and certainly the storage and transport, of guncotton, sawdust powder, and a number of other explosives, are entirely unregulated. Moreover, it would seem that the restrictions of the Act of 1860, which alone relate to miscellaneous explosives, affect merely the making and keeping thereof, and that by manufacturers only; persons not manufacturers being exempt. Thus these explosives may be manufactured without license or inspection at all, and without any isolation from dwelling-houses. Whereas licenses to manufacture dynamite are not granted until every detail of the site and buildings has been carefully considered; thus, in the license for the British Dynamite Company's factory at Ardeer, near Glasgow, no less than 31 separate conditions were deemed necessary, and embodied by the Inspector, Major Majendie.

Under the Acts, as interpreted, any person may keep 50 lbs. of gunpowder for his own use, or it a dealer 200 lbs., or for mining purposes (under certain conditions) 2 tons; or quantities in excess thereof respectively, if at a distance of more than ¼ mile from a church, 1 mile from the limits of a borough or market town, or 2 miles from a royal palace. But there is nothing whatever to prevent any person from having an indefinite quantity of guncotton, unconditionally, anywhere; as, e.g., 1000 tons in Abingdon-street, close to the Houses of Parliament and Westminster Abbey; in Cornhill, close to the Mansion House, the Bank of England, and the Royal Exchange; or in the Buckingham Palace-road, close by the Royal Palace. Whereas no one may have, make, sell, carry, or dispose of so much as a single ounce of nitroglycerine preparation, such as dynamite, without a license, under penalty of a fine not exceeding 500l., or imprisonment for misdemeanour, with or without hard labour, for any period not exceeding 12 months.

(To be continued.)

AMERICAN SUBSCRIBERS.—In reply to several enquiries, it may be stated that subscribers in the United States can be supplied with the Mining Journal, post free, at the price of \$8 60c. gold per annum, payable in advance, by remitting to Mr. D. Van Nostrand, publisher, and importer of scientific books, &c., Murray-street, New York; or, direct to our Office, 26, Fleet-street, E.C.

Registration of New Companies.

The following joint-stock companies have been duly registered:—

GENERAL REGISTER AND METERS COMPANY (Limited).—Capital 50,000*l.*, in 5*l.* shares. To acquire letters patent for improvements in the apparatus used for registering the speed of revolving machinery. The subscribers (who take one share each) are—John Axtell, 31, St. John's Wood Park, N.W.; Arthur M. Mithrie, 3, Abchurch-lane; M. A. Weir, 4, Bloomfield Villas, Shepherd's Bush; L. G. W. Godden, 168, Fenchurch-street; C. F. Chyatt, 4, Leigh-terrace, Cornwall-road, Brighton; James Hole, 1, Great College-street, Westminster; and Edward Lee, Gresham Buildings, E.C.

DUFFRYN RHONDDA COAL AND COKE COMPANY (Limited).—Capital 50,000*l.*, in 10*l.* shares. To acquire a mineral property in the County of Glamorgan, known as the Duffryn Llyn Farm. The subscribers (who take one share each) are—W. Lonsdale, Llewisham; W. Malcolm, 4, Edgware-road; S. S. Malcolm, 3, Norfolk-road, Park-lane; M. Molin, 22, St. Mary Axe, E.C.; W. A. Malcolm, Baywater; C. H. Lonsdale, Newport, Mon.; and James Paskett.

NEW ROAD COLLIERY COMPANY (Limited).—Capital 20,000*l.*, in 1*l.* shares. To acquire coal properties in the Forest of Dean. The subscribers (who take one share each) are—J. R. Taunton, Epsom; A. Pickett, 5, Rouncey-terrace, Lower Norwood; S. F. Coddell, 26, Moorgate-street; A. Robinson, 73, Windsor-road, Holloway; J. S. Pottery, 27, Gracechurch-street; C. S. Preston, 13, Queen Victoria-street; and T. Goodchild, 78, Cheswell-street.

ORWELL NATIVE OYSTER COMPANY (Limited).—Capital 10,000*l.*, in 1*l.* shares. To purchase of Mr. Halcombe, of 8, Moorgate-street, his oyster preserves near Walton, Suffolk.

SHEFFIELD MASONIC HALL COMPANY (Limited).—Capital 10,000*l.*, in 5*l.* shares.

WEST BERLIN AND POTSDAM WATERWORKS COMPANY (Limited).—Capital 250,000*l.*, in 10*l.* shares. To acquire concessions for the right to supply West Berlin and Potsdam with water. The subscribers (who take one share each) are Wilford Brett, Esq.; Charles Balfour, James-street, S.W.; P. H. Scatchell, Royal Avenue, Woolwich; F. Karuth, 4, Cullum-street, W.; W. H. L. Green, Berlin; H. B. James, 113, Victoria-street; and J. L. Hamilton, Victoria-road, Kentish Town.

MONTAGUE HALL COMPANY (Limited).—Capital 5000*l.*, in 5*l.* shares. To erect a hall in the town of Worthing.

CITIZEN PRINTING AND PUBLISHING COMPANY (Limited).—Capital 20,000*l.*, in 5*l.* shares. To carry on business as journalists and collectors of news, &c. The subscribers (who take one share each) are—E. D. Rogers, 100, Shaftesbury-lane; D. Leggett, L.L.D., 55, Lincoln's Inn Fields; D. Rogers, Dabell-road, Stockwell; T. J. Reed, Chancery-lane; J. M. LaSage, Stanhope-street, Mornington-crescent; J. R. S. Nere, Redhill; W. J. Greenwood, St. Pauls-road, Camden Town.

NEW ROAD COTTON SPINNING AND MANUFACTURING COMPANY (Limited).—Capital 50,000*l.*, in 5*l.* shares. This is a Lancashire Cotton Spinning Company. The subscribers are—W. H. Bessie, Whitfield, near Manchester, 400; J. Bent, Clifton near Manchester, 10; J. Horridge, Radcliffe, 200; W. Wilcox, Radcliffe, 50; J. Peckstone, Radcliffe, 10; E. Madshaw, Whitfield, 10; R. T. Guntton, Radcliffe.

VICTORIA WEBB PAPER MAKING COMPANY (Limited).—Capital 6,000*l.*, in 5*l.* shares. To acquire paper mills in the county of Antrim.

POWELL AND COMPANY (Limited).—Capital 15,000*l.*. To acquire a printing and publishing business.

JOSHUA HEATH AND COMPANY (Limited).—Capital 3000*l.*, in 100*l.* shares. To take over a business at Oldham.

UNITED KENT LIFE ASSURANCE AND ANNUITY INSTITUTION.—Constituted by deed of settlement December 1, 1873, is now incorporated as a limited company.

MANCHESTER ORIENTAL CLUB (Limited).—Capital 5000*l.*, in 1*l.* shares.

VALE MILL COTTON SPINNING, MANUFACTURING, AND MINING COMPANY (Limited).—Capital 50,000*l.*, in 5*l.* shares. To acquire the Vale Mill at Baeup, and to mine for coal at the same place. The subscribers (who take one share each) are—H. Shaw, Rochdale; G. Maxwell, Baeup; H. Chappell, Rochdale; E. Ormerod, Rawtenstall; J. McLaughlin, Baeup; J. Lawn, Baeup; B. Clark-son, Heywood.

BANGOR AND PROVINCIAL MUTUAL LIFE ASSURANCE COMPANY (Limited).—This company is limited by guarantee, and its object is explained by its title. The subscribers are—J. Roberts, Bangor; H. Williams, Bangor; J. Simon, Bangor; J. R. Ellis, Bangor; R. Griffiths, Llanfair; W. Thomas, Amble; J. E. Roberts, Bangor; and R. Jones, Pwllhel.

MANCHESTER WHAREHOUSE PROPERTY COMPANY (Limited).—Capital 200,000*l.*, in 20*l.* shares. To acquire land for the erection of warehouses &c. The subscribers are—W. Adamson, Faulker-street, Manchester, 50; T. Alexander, Stretford, 50; J. Palin, Moseley-street, Manchester, 100; T. W. Uppell, Melbourne Cottage, Rushmore, 50; E. Wilde, Burnage, near Manchester, 50; J. Beckerton, Oldham, 25; J. Little, Brooklands, Cheshire, 50.

HONEYWELL COTTON SPINNING COMPANY (Limited).—Capital 50,000*l.*, in 5*l.* shares. To acquire a plot of land at Oldham for the erection of a cotton mill. The subscribers (who take one share each) are—W. Lees, Hollenwood, 50; B. Farrington, Oldham, 10; R. Stott, Oldham, 10; D. G. Houghton, Oldham; O. S. Fielding, Oldham; H. P. Platt, Oldham; and J. Hilton, Oldham.

WAIN COLLIERY COMPANY (Limited).—Capital 15,000*l.*, in 5*l.* shares. To acquire the Main Colliery at Loughor, Glamorgan. The subscribers are—A. Douglas, Gloucester-terrace, Hyde Park, 5; T. Jervis, King-street, Cheshire, 5; C. S. Phillips, 18, Queen Victoria-street, 5; T. D. Whitehall, Queen Victoria-street, 5; W. Partridge, 269, Commercial-road, 5; J. E. Castello, Horslydown-lane, 1; and W. H. Castello, King-street, Cheshire.

NORWEGIAN MINING AND SMELTING ASSOCIATION (Limited).—Capital 100,000*l.*, in 10*l.* shares. To acquire the Malsau Copper Mines, in the Valley of Vaydal, Norway. The subscribers are—J. D. Fletcher, 12, Westbourne-terrace, 30; C. Allhusen, Slough, 50; M. M. Masse, Spring Vale, Ealing, 10; W. F. Moore, 65, Austin-friars, 10; E. Woods, Great George-street, S.W.; R. S. Archbold, 2, New Broad-street, 5; and W. R. Straus, Sussex place, Regents Park, 6.

CAN MINING SHARES BE REGARDED AS PRUDENT INVESTMENTS?
—Some years ago we were asked to advance 40,000*l.* upon a mine in Wales, with the option of purchase. At that time we considered everything connected with mining to be necessarily of a highly speculative character, and we accordingly declined to entertain the proffered business. The matter soon afterwards came to the notice of a gentleman of limited means, but of unusual shrewdness. He went down to Wales to inspect the mine, and then he entered into an agreement for its purchase, though rumour has it that he was obliged to borrow even the money for his railway fare back to London. When he returned he laid the results of his observations before his friends; a company was at once formed for purchasing and working the mine; it turned out a brilliant success; the shares advanced to a high premium; and in a few months he found himself the gainer of over 100,000*l.* by the transaction. Since then the mine has continued to pay large dividends; and the high market price of the shares is an evidence of the value which is considered to attach to the property. Cases more or less analogous to the above are constantly occurring, and, therefore, it cannot be unimportant to enquire why mining investments are looked upon as the "outer barbarians" of the financial world, and why that industry which laid the foundation and is still the mainstay of England's greatness should be, as a matter of course, held up to public opprobrium and reproach. Surely coal, iron, copper, tin, silver, and gold are as essential for our lives and well-being as corn, meat, wool, cotton, beer, and wine; and are surely those who produce the former should command our respect and attention equally with those who produce the latter. The difference is not in the nature of the goods, but in the manner in which they are produced, and in the vicissitudes of fortune. While one of the miner may find his deposit of ore grow richer or poorer, or may be baffled by floods or explosion, or may see his profits augmented or diminished by the fluctuations of the coal and metal markets, yet on the other hand the agriculturist, the merchant, and the manufacturer have to encounter the chances of the seasons, rain, hail, and murmur, foreign war, Trades Unionism, and the ups and downs of commerce.—*City Observer.*

TUNNELS AND SUBWAYS.—Mr. J. H. GREATHAD, of Storey's Gate, Westminster, has patented some improvements in constructing tubular tunnels or subways, and apparatus for that purpose. A shield, having a cylindrical flange projecting backwards, so as to overlap the forward part of the tunnel casing, has through it a series of stuffing-boxes and apertures to the exterior, through which tools are protruded to disintegrate the soil in front, and has also through it pipes for ejecting water or air under pressure, and other pipes, by which the disintegrated material suspended in water, or in case of dry sand, in air, is forced back into receptacles behind the shield. The shield front may also be made with doors or man-holes, or in cells or compartments, and may be provided with an air chamber behind, supplied with air under sufficient pressure to exclude water from the cells during work. As the space in front of the shield is cleared, it is forced forward by screw jacks or hydraulic presses abutting on the tunnel casing behind, and the casing is extended within the flange of the shield. The casing may be of iron or other metal in voussoir segments bolted together, or of iron frames filled in with cement or concrete, or of artificial stone, cement, or concrete blocks previously moulded and built in their places with temporary clamps to secure them. The joints may be made tight by leather or other yielding material, which may serve also to make a tight fit to the flange of the shield. The space left by the withdrawal of the flange is filled with liquid cement injected through holes in the tunnel casing.

SMELTING IRON.—Mr. W. A. LYTLE, of the Grove, Hammer-smith, has patented some improvements in the process and apparatus for smelting iron. The features of novelty are—1. The preparation of a concrete or conglomerate, consisting of the iron ore, fluxing material, and carbonaceous matter, all in a crushed state, and consolidated as follows into lumps, the object being the more economical reduction of the ore through the more energetic reaction caused by the intimate and close mutual contact of the component ingredients. 2. The consolidation of this mixture by any of the existing well-known means, whether patented or not, employed in making artificial stone, or in the consolidation of the dust of coal or peat charcoal for furnace purposes. 3. The consolidation, the same mixture by means of the fluxing lime in a caustic state, by hydraulic cement, by plastic raw peat, or by a thin slip of plastic clay. 4. The smelting of this conglomerate or artificial blackband iron ore in a duplex furnace containing two adjacent shafts or chambers united at the crucible where the blast enters, one chamber being for the fuel only in the form of dust or any other form, and the other for the above blackband. Instead of the blackband conglomerate, an ordinary furnace charge of interstratified lump ore, fluxing materials, and reducing fuel may be used in the second chamber of this furnace.

EXCAVATING MACHINERY.—Mr. H. WILDE, of Manchester, has patented an invention which consists in substituting for the force of compressed air or other power now employed for excavating coal and other minerals, the motive power produced by magnetism and electricity, by which the excavating is effected in a more economical manner than can be done by hand labour, and with greater comfort to the men engaged in the work. Powerful electric currents for producing the motive power are generated by magneto electric or an electro-magnetic induction machine driven by a steam-engine. The invention also relates to the excavating machinery.

Mining Correspondence.

BRITISH MINES.

ABERDAUNANT.—S. Toy, Nov. 25: No. 2 adit, driving east, is of kindly appearance, and producing some saving work for lead dressing, but not sufficient to value. In the rise above this level we have driven west, and communicated with the No. 4 stope, and we have blasted some holes in the north part of the lode to prove its quality, which have produced some good rocks of lead; we are now stopping on the south and soft put to uncover the north and productive part of the lode, which I expect we shall commence to take down in a week from this time, and from its present appearance I have every reason to believe we shall have fully as good a lode in this part as we had in our former stopping ground.—Surface: The masons have finished building the new powder magazine, and commenced to build two new slime pits.

BEDFORD CONSOLS.—Geo. Rowe, J. Mitchell, Nov. 25: The lode in the 67, west of sump-winze, is 5 ft. wide, yielding capel, spar, and mundle, with good stones of ore. The 67 east is now under the 67, and will yield 1 ton of copper ore per fathom; and in the level above, where the lode is improving in character, and producing fine stones of ore, altogether of a very kindly appearance.

BOG.—W. T. Harris, J. Barkell, Nov. 24: In driving the 175 west on the White-stone lode, we have recently cut into a cavity about 20 in. wide, extending on in the direction of the level, and we cannot yet see the fore end of it. It does not reach higher than where the roof of the level should be, and the lode at the top of it is worth about 3 tons lead ore per fathom. This cavity will greatly facilitate our progress in going forward, and in laying open good ground for stopes; preparations are being made to resume driving east from the junction on this lode, where we have every prospect of laying open ground that will be worked at a low tribute. We have 17 tribute pitches at work, varying from 50s. to 8*l.* per ton for lead, and 25s. to 40s. per ton for blende.

CAGEYNO.—F. Hodge, Nov. 25: In the 70 east we have cut into the lode north about 4 ft., which is composed principally of slate, with some strong spots of lead ore intermixed. I think the leady part is still before us. We have cut into the south lode south about 2½ ft., yielding blende, mundle, and spots of lead ore—a very strong and kindly lode. I intend to put a pair of men in the bottom of the said level next week to make trial so far as the water will allow, the level is comparatively dry in the last 12 fms. driven, that the water is all coming up from the bottom near the mouth of main cross-cut shows that the lode is open and porous; and I can only repeat again that my opinion is as strong as ever that deeper working will surely bring us into a rich mine. It is a fact that in this level the lode has undergone a great change, and we must go deeper to see what it will lead to. I have not the least doubt in my mind as to results. The stope in the bottom of the 50 is worth 6*l.* 10s. per fathom.

COURT GRANGE.—E. Dunkin, Nov. 26: There is nothing special to report on in the underground department this week, there being no change since my last report. The water is going down as fast as we could expect, seeing the great excavations made throughout the mine. Surface work is going on capitally, and we may now consider the mine in fair working order. Full details next report.

CHRYNER AND WHEEL ABRAHAM UNITED.—Wm. Thomas, J. Hamhill, Nov. 25: Sturt's Engine-shaft: In the 233 driving west the lode is 2 feet wide, and will yield 1 ton of copper ore per fathom; this end is letting out much more water, and from the appearance of the lode in the end we may shortly expect an improvement. The men we had employed in taking down the side of the lode we have set to drive east; 1 ton of lead ore will yield 1 ton of copper ore per fathom; the lode intersected the old lode about 17 fms. west of shaft, and to present appearance this lode is standing to the south of this shaft; we shall be able to report more fully on it in a few days. In the 215 driving west the lode is 3 ft. wide, and yields 1 ton of copper ore per fathom. In the winze sinking below the 215 the lode is 2½ ft. wide, and will produce 1 ton of copper ore per fathom. We have set eight men to rise against St. George's shaft, where the lode is 3 ft. wide, yielding copper ore to dress; we attempted to sink this shaft below the 203, but in consequence of there being so much water we were obliged to suspend the sinking for the present. In the 203 driving west, the lode is 1½ ft. wide, yielding good stones of copper ore.—Wolf's Shaft: In sinking this shaft below the 208 the lode is 3 ft. wide, and produces 1 ton of copper ore per fathom; the shaft is now about 9 fms. 2 ft. below the level.—Blewitt's Shaft: In the 234, driving west, the lode is 2 ft. wide, yielding good stones of tin, having a much better appearance. In the rise in back of the 220, against Richards's shaft, the lode is 3 ft. wide, and will yield 1½ ton of copper ore per fathom; this rise is now up about 5 fms.—Richards's Shaft: In sinking this shaft below the 210, now down about 2 fms., the lode is 4½ ft. wide, and will yield 2 tons of copper ore per fathom; we are now in progress, and we hope to obtain a communication with this level. In the 210, driving west, the lode is 4 ft. wide, yielding copper ore to dress. In the winze sinking below the 200, west of shaft, the lode is 4½ ft. wide, and will produce 1½ ton of copper ore per fathom. In the 200, driving west, the lode is 2½ ft. wide, and is producing 1 ton of copper ore per fathom. If the weather proves favourable we hope to get the calciner ready for calcining on Monday next. There are employed this week on tubwork 165 men and boys; on tribute, 88 ditto; at surface, 56 ditto; total, 309 men and boys.

CWM DWYFOR.—J. Jewell, Nov. 25: We have put the men from the stopes to work in the level driving east of the south cross-cut, as we want to reach the little shaft sunk in the open cutting quickly; we have met with a vugh in the lode, which has improved considerably. We are now near the slide seen in the open cutting; the ground is hard, but there are indications that we may shortly expect an improvement; we are pushing on as fast as possible.

DE BROKE.—T. Hodge and Son, Nov. 26: In Wilson's shaft, during the past week, we have made good progress; the same is now communicated with the adit level. The cross-cut men are placed in the 25, on the counter lode, to put a trial stope over the back of the lode, and to drive east of the lode, and to drive east of the lode, during the past few days has been poor, but to day it is looking better, and may be valued at ½ ton per fathom. The stope east of No. 2 shaft is now worth 15 cwt. of lead per fathom, about pay for working. The level showed a good lode in this direction for several fathoms in length, but in going down a few feet it suddenly fell off. The shaft appears to have gone down in the heart of the bunch of ore. Dressing is going on regularly, and the machinery working well. We shall sample to-morrow (computed) 12 tons of lead ore.

DEVERBARK.—John Goldworthy, John Bucknell, Nov. 21: The cross cut at the bottom of the engine-shaft is extended south 3 fms. 1 ft. The stratum is a light-blue clay slate, congenial for the production of copper ore; there is a great increase of water. Judging from the underlay of the lode in the adit, we anticipated on reaching the lode ore this; the lode must have gone down more perpendicularly—this is a good sign. Good progress is being made in the cross cut. The machinery is in good order, and works remarkably well.

DENBIGHSHIRE CONSOLIDATED.—John Pryor, Nov. 26: In the 12 east the ore in the dressing is now from 4 to 8 in. wide, and we have no south lode in the 145 fm. level east of the No. 2, and further improved, 6 ft. of which being carried is a very fine course of ore, worth fully 12 tons, or 72*l.* per fathom. In the 130 east, on the south part of the lode, which is 3 ft. wide, the lode is worth 2 tons of ore, or 10*l.* per fathom.—Railway Shaft, New South Lode: In Dart's winze, sinking below the 145 east, the lode is worth 2 tons of ore, or 8*l.* per fathom. In Burgoyne's winze the lode being stripped down below the 130 west is 3 ft. wide, and worth 2 tons of ore, or 8*l.* per fathom. In Killo's winze, below the 115 west, the lode is worth 3 tons of ore, or 10*l.* per fathom. In James's rise, in the back of the 100 east, the lode is worth, for the length carried (9 ft.), 4 tons, or 12*l.* per fathom.

DYLIFFE.—E. Evans, E. Rogers, Nov. 25: Dylyffe Lode: At the 120 we are pushing on the cross cut as fast as possible, and expect to cut the lode in about four or five weeks from this time. At the 40 there has been no lode taken down during the past fortnight. The 15 east is producing small stones of lead ore, but not of much value.—Esgairgaled Lode: In the stope in the back of the 45 the lode is improving as we get towards the winze sunk from the level above. There is no alteration in the tribute department: 60 tons of ore have been sold to-day to Messrs. J. Walker, Parker, and Co., at 15*l.* 10s. per ton, realising 900*l.*

EAST DAREN.—Nov. 25: Skinner's shaft, sinking under the 116, is in ground chiefly composed of a dark clay slate, and hard beds of grit. In the winze sinking under the 104 no part of the lode has been taken down as yet; at this point we are a couple of men short, so that progress is slow. In the 92 east, on the north part of the lode, the lode is 2 ft. wide, composed of a dark-slate carbonate of lime and lead ore, yielding saving work for dressing. At this point we have commenced stoping to prove it. The ore ground does not lengthen eastward above the back of level. The tribute pitches throughout the mine are without change to notice. Our machinery is in good order, and drawing and dressing being pushed forward with all vigour, but the weather for the past few days has been wet and stormy, which has been rather hindering, but we hope to sample to-morrow (Tuesday) 60 tons of silver lead ore.

EAST VAN.—W. Williams, Nov. 23: I am happy to inform you that the 25 west looks more favourable than it has done for a long time as we approach the Van sett.

EAST WHEEL BASSET.—Richard Pryor and Son, Edward Adams, Nov. 24: On Friday the 100 fms. level was set.—The south shaft to clear and secure below the adit level, by six men, at 3*l.* 10s. per fathom; here we have got down about 11 fathoms below the adit, and are daily expecting to clear the whole of the stuff that is in this shaft. The 50 fathom level cross-cut to drive south of flat-rod shaft, by six men, at 5*l.* 10s. per fathom: we intend to push this point forward with the utmost dispatch, as there are good and important chances connected therewith. The 50 to drive east of shaft, on Copper Hill lode, by six men, at 6*l.* per fathom; the lode is of a very kindly appearance, and worth 10*l.* per fathom. To stop the lode at this level, east of winze, by six men, at 5*l.* per fathom; the lode is of a very kindly appearance, and worth 10*l.* per fathom. To stop the lode at this level, west of winze, by four men, at 5*l.* per fathom; the lode is worth 20*l.* per fathom. We also set four tribute pitches at various places throughout the mine, to ten men, at 12*l.* 6s. to 13*l.* 4s. in 1*l.* We continue to make fair progress with the dressing of our copper ore against the next sampling, which we believe will be considered satisfactory.

EAST WHEEL GRENVILLE.—E. Hosking, W. Bennetts, Nov. 21: The rise above the 110 east is in a good lode, worth 12*l.* per fathom for copper ore. Other parts of the mine are looking well as last reported.

EAST WHEEL GRENVILLE.—E. Hosking, W. Bennetts, Nov. 26: The lode in the 130, west of engine-shaft, is 20 in. wide, and worth 6*l.* per fathom. The rise above the 130 west is worth 5*l.* per fathom. The winze sinking below the 120 west is worth 5*l.* per fathom. The ground in the 120 cross-cut north and 110 cross-cut south continues favourable for driving. The rise above the 110, east of engine-shaft, is worth for copper and tin 12*l.* per fathom. The stope below the 95 east is worth 6*l.* per fathom.

EAST WHEEL LOVELL.—R. Quentrell, Nov. 25: Fatwork: In sinking below the 100 the part of the lode we are carrying is 10 in. wide, and we have no south wall. The north part, for 2 ft. wide, is rich work for tin, and the remainder moderate stamping work.—Tregonebris: The 34, east of new engine-shaft, is worth 25*l.* per fm., and in a winze sinking upon this end the lode is also worth 25*l.* per fm.

FLORENCE CONSOLS (Tin).—P. Skewis, J. Searle, R. Skewis, Nov. 24: Setting Report: Walter's engine shaft is now down 7 fms. 4 ft. 6 in. under the 60 fm. level, and we have 5 fms. 1 ft. 6 in. more to sink to finish the sump. I think we

shall make good progress in sinking this month as the ground is very favourable. The cross-cut south, west of Walter's shaft, in the 60, driving by six men, at 7*l.* per fathom; here the ground has greatly changed since I reported last, and we have now very hard ground, with branches of quartz crossing the end, a good indication of being near another lode. The end west, in the 60, on Georgia lode, we have suspended for a time, and have put the men to drive on the new north lode, in the 40, where we have now two men and two boys driving at 40s. per fathom; this lode has a very promising appearance. The 60, driving west on Fisher's lode, by two men, at 50s. per fathom, and rising in the back of the same at 20s. per fathom; we expect to break some good average work from the back, as we have driven through a piece of tinny ground, and the end is not so good. Driving Eliza's shaft we have sunk 1 fm. 1 ft. 9 in., the branch of tin through it still continuing, since I reported last, being a fortnight's work; here I have set the whole sump of 10 fathoms, to six men, at 14*l.* per fathom, and to complete all other work required for the same. In the 66 we have nine men sinking and stoping at 6*l.* 6d. per ton; here we are breaking a large quantity of stuff of a good quality, and we intend to set on more hands in this level to stope as soon as convenient. In the 66 west, on Fisher's lode, we have now men driving at 30s. per fathom, and this is a promising lode. Driving east, by two men, at 20s. per fathom, and rising in the back of the same at 10s. in 1*l.* tribute; here we have a good tinny lode. In the 76 we are driving west on Fisher's lode, by three men, at 40s. per fathom; and east, by three men, at 40s. per fathom. Both ends, east and west, have greatly improved for tin this month. We have two men rising in the back of the 76, on the branch, from the Millpool Standard lode, at 50s. fathom; the lode is small, but is good saving work. The 60, driving west on Millpool Standard lode, by three men, at 50s. per fathom; the lode is 3 ft. big, carrying a little tin to stope. I think we may shortly expect to intersect a lode here, as it has every appearance of it. In the 60 east we are stoping the back on the Millpool Standard lode, by four men, at 5*l.* 6d. per ton, but we intend to take these men after this week to stope the 66, where we are now breaking good tin-stuff. In the 20, west of Eliza's shaft, on Fisher's lode, we have three men stoping the back, at 30s. per fathom; here we are breaking a large quantity of stuff, but of low quality. We have four tribute pitches at work at 15*l.*, 13*l.*, 4*l.*, and 10s. in 1*l.*—Treave Mine: Driving west on the south lode, in the 30, by two men, at 30s. per fathom; and rising in the back of the same, by two men, at 30s. per fathom—this is a good tinny lode. I expect we shall break some good work from this place this month. Driving the 30 west, on the north lode, by two men, at 70s. per fathom; here the lode is not so good; but saving work, and we are pushing this end on with all speed, as we shall shortly make a communication through to the adit level, and also intersect the Neptune copper lode. We have two tribute pitches here in this mine working at 13*l.* 4d. and 10s. in 1*l.*—Hosking's Shaft: We are driving the 40 west, by four men and two boys, at 60s. per fathom; the lode is from 18 in. to 2 ft. big, but which through not saving work at present looks very kindly, and letting out water freely; we are pushing this on with all possible speed, as we intend to make a communication through to the Chiverton Mine, this being the adit level, and will be leaving from 20 to 30 fathoms of back to take away, the ore from the Chiverton 15 fm. level having averaged 14 lbs. to the ton. We hope shortly to send up some tinstuff from Treavevan's, where we have put on tributers. Machinery in good working order.

FURZE HILL.—Wm. Doidge, Nov. 26: No. 1, North Lode: In the Midway level east we are got into firm ground, but no lode has yet been met with; the end is now being turned south as fast as practical, where we hope shortly to intersect it; the country is composed of a light blue slate, intermixed with small branches of spar, just the hardness and colour for the production of tin in this mine. The lode in the back of this level is worth 12*l.* per fathom. Midway Lode: The lode in the 54 east is split up in small branches, and at present unproductive, but the average value of the stopes on this lode is 9*l.* per fathom. Our last parcel of tin weighed 3 tons 15 cwt. 2 qrs. 14 lbs., at 88*l.* 2s. 6d. per ton, and we are now as usual preparing another for market.

GAWTON COPPER.—George Rowe, George Rowe, jun., Nov. 20: The lode in the 117, east of King's shaft, is 4 ft. wide, of a very kindly appearance, and yielding occasional stones of mundle and ore. The drive west of the same level is without change in character since we last reported on it. The lode in the stope in the back of the 95 is worth 6*l.* per fathom. The lode in the stope in the bottom of the 82 is worth 8*l.* per fathom. The lode in the stope in the bottom of the 70 is worth 12*l.* per fathom. The lode in the rise and stopes in the back of the 70 is worth 10*l.* per fathom. All other points are without change.

GOGINAN AND LEVEL NEWYDD.—Nov. 23: In the 100 going east the lode is without any material change, showing a little lead and copper ores. We shall commence rising over this level against the shaft very shortly. Bryn Pica shaft is being carried down as fast as possible by nine men, and fair progress is now being made. The same remark may be applied to the western shaft, below the 50. We have now six men sinking this shaft below the 100, in a lode 4 ft. wide, which will produce 12 to 14 cwt. of lead ore per fathom. The water is nearly out of the 110, and we have commenced putting in timber at that level, clearing stuff, &c., preparatory to rising against the said shaft below the 100. All points throughout the mines are being pushed forward with the utmost vigour. The tribute pitches continue to produce about their usual quantities of ore. The surface work is going on regularly, and we have a good supply of water. The borlase buddle is almost complete, with the exception of the large driving-wheel on the outer circle, which will leave the foundry this week.

GORSIEDD AND CELYN LEVEL.—W. Edwards, Nov. 26: The appearance of the driving to cut the Merlyn vein are most satisfactory. There is now a sound in the level as if some open ground was before the forebrest, and the men seem confident of cutting the lode quickly. The tribute pitches and the driving on the Gorsiedd lode are going on well.

GREAT RETALLACK.—J. Harris, Nov. 21: The lode in the 40 east has further improved for the production of blende since I last reported, now worth fully 6 tons per fathom—a fine looking lode.

GREAT RETALLACK.—John Harris, Nov. 26: I am glad to tell you the lode in the 40 was looking better yesterday for blende, and worth fully 8 tons per fm., a very fine looking lode. I am also pleased to say we are getting on pretty well with our dressing for the parcel. I am hoping to make it 30 tons by Wednesday.

GREAT WHEEL LOVELL.—Joseph Prisk, Nov. 25: In the 44 cross-cut south we have intersected the lode, and have commenced to drive east on its course. I am pleased to say it is 18 in. wide, and producing some excellent work for tin; so far as seen it has an excellent appearance. I shall be able to report more fully on it next week. In the 34 cross-cut south we have commenced to drive east on two branches, which will form a junction in a few fms. driving, and will, no doubt, prove to be the main lode. The lode in the winze sinking below the 34 is still a little disordered, but from its present appearance I think it will improve shortly. The lode in the stope east of sump-winze is worth 7*l.* per fathom. The lode in the 34 east is worth 6*l.* per fathom. The lode in the 34 east and stope, on the south part of the lode, is worth 4*l.* per fathom. In the 24 east the lode is 18 in. wide, opening tribute. The lode in the stope east of Daily's winze is worth 4*l.* 10s. per fathom. The lode in the 14 east is 1 ft. wide, and opening ground that will work tribute. The tributers are all breaking good tinstuff, and everything on the mine going on well.

ILLOGAN.—R. Pryor and Son, Nov. 25: The ground in the deep adit cross cut has slightly improved in its nature since our setting report of last week, and the men are making rapid progress in driving. The lode in the shaft continues just as when last reported on. There has been no further change to remark.

KINGSTON VALLEY.—G. F. Richards, Nov. 26: The lode in the 18 west is improved, and will produce a good quantity of blende and silver-lead ore combined. The lode here altogether is of immense size, and promises a further yield. In the rise in the back of the 18 west the lode is increased in size, and will produce several tons of blende and silver-lead ore per fathom. In the winze sinking below the adit level the lode is also very large, of beautiful composition, and continues to produce a large quantity of blende and silver lead ore per fathom. We may now fairly calculate that the piece of ground—about 22 fms. in length, on the course of the lode, standing between the adit and the deepest point yet reached (18 fms. below adit)—will be a continuously productive and important piece of ore ground, and we hope to effect a communication between the two levels in the next few weeks. The appearance of the mine is excellent, and, altogether promising for a very valuable mine being laid open.

Richmond ledge, or vein. This fact virtually adds the intervening ground between the points to which the great vein has been worked down, and the new point lately struck to the reserves, as no reason

for the whole distance. The work of sinking on the advanced portion of the great vein is being continued, though slowly, in consequence of the need at present of greater power of ventilation. By the latest accounts it appears that at this point also the lode is widening as it goes down. The surveyor of the Eureka Consolidated Company has been allowed to enter the Richmond Mine to take bearings, in order to determine the question whether the lode at its farthest working was in any way encroaching on the boundary line settled between the two companies, the result being that it is now demonstrated that at the nearest point to the Eureka boundary the Richmond ledge was 287 feet from it before it took its swing back towards the Richmond Company's main area, up which it is now taking its grand course, clear of all difficulties, legal or otherwise. The season's make of bullion amounts to \$1,177,000. The last few weeks work must be considered highly satisfactory, as it is understood that a much higher rate of profit than the yearly average is now being realised. Litharge is now being produced in considerable quantities from the company's separating works at Eureka, and a flux, to operate on the poor ores, hitherto all but useless, is obtained nearly free of cost. The new flux is working most successfully, and is estimated to effect a saving of 40% daily when the three furnaces are at work. The proceedings of the general meeting are reported in another column. Eberhardt and Aurora, 4 1/2 to 5 1/2; at the meeting, reported elsewhere, it was resolved to issue debentures to the extent of 10,000. South Aurora, 3/4 to 5/8. Mineral Hill has produced 35 tons of ore, of an average grade of \$35 per ton, during the week ending Nov. 2.

Emma, 1 to 1 1/2. Flagstaff, 1 1/2 to 1 3/4; the most unsatisfactory advices continue to be received as to the position of the vendor towards the directors. Last Chance, 3/4 to 1; Tecoma, 3/4 to 5/8. Utah, 1/2 to 3/4; the shares of this company are of an almost nominal value now, though from information received it is by no means certain that the ore is of the low value that has been put upon it. New Pacific, 3/4 to 5/8; the agent reports operations going on as usual, and no change underground in the various ends.

Blue Tent, 5 to 5 1/2; the superintendent, Colonel Tozer, is rapidly getting the South Yuba claim into shape for vigorous working. The large blast lately exploded did fine execution, and when washing commences good returns will be made. The Enterprise claim is in readiness when rains begin. Cedar Creek, 1 1/2 to 1 3/4; we published a telegram last week that water to wash Yankee claim was assured for the remainder of the year. A later telegram announces a clean-up of this claim with a profit of \$5000, after paying for much necessary dead work. There is every probability of this company doing well during the coming season, and shares have been in request at advanced prices. Birdseye Creek, 2 1/2 to 2 3/4; the agent, Mr. Powers, was pushing on with the new tunnel and shaft with all possible speed. The arrangements for the coming season were well in hand. Sweetland Creek, 2 1/2 to 3; Mr. G. D. McLean writes that he expects to recommence washing some time during the present month. The communication between the two ditches was nearly completed.

Sierra Buttes, 1 1/2 to 2 1/2; ditto Plumas Eureka, 1 1/2 to 1 3/4. The stopes at Sierra Buttes have yielded ore of somewhat lower grade, which accounts for the profit in October being less than usual, but the current month's profits are expected to be up to the usual average. At Plumas Eureka the ledge continues to maintain its great size and productiveness, the ore being of high grade in free gold, exclusive of the sulphurets, which are abundant and very rich; a great mine is being steadily opened up, which promises to be permanent and highly profitable. London and California, 3/4 to 5/8; the ledge here has been explored, and found continuous for 100 feet, height and width of it unknown. The ore is of unusually high grade—\$50 per ton; the last crushing of 260 tons was crushed by 10 stamps in 13 days, and realised \$13,000; another crushing is shortly expected. Independence, 1 1/2 to 1 3/4; the eastern end at the fourth level has been driven through the shoot, and the rich ore above having been worked away by the previous owners, the stopes in this part are in low-grade ore, which reduced the average of last month's crushing; the stopes and end west of the rise continue in good auriferous quartz, and this part of the mine looks most promising; the shaft has been sunk 8 feet, and the sinking promises to be rapid. The object of sinking this shaft is to intersect the middle shoot, which has been the most extensive auriferous shoot in the mine.

Cape Copper, 2 1/2 to 3 1/4. Rio Tinto, 8 to 9; 150 tons of cement copper are expected at Liverpool, and about 250 tons of pyrites; the progress of the contractors with the railway is so satisfactory that the directors rely upon the completion of the line by Midsummer. New Quebrada, 3 1/2 to 3 3/4.

Linares shares have improved to 3 1/2, 4; Fortuna, 4 1/2 to 5; Alamo, 1 1/2 to 2. Van, 20 to 22 1/2; there is no change to report from the mine. Everything is progressing with the usual regularity. Van Conso, 2 1/2 to 2 3/4. Bog, 3/4 to 5/8; we understand that the chairman has received a satisfactory number of promises in respect to taking up some preference shares. He intends, therefore, appealing once again to the shareholders, and if the promises are carried out immediate steps will be taken to remove the company out of liquidation. A correspondent sends us a report from a local engineer, and we print same in another column. The late discovery is one of unusual importance, and it behoves the shareholders now to put their shoulders to the wheel and rescue this undoubtedly fine property. West Esqair Lie, 2 1/2 to 2 3/4; on Wednesday the shareholders confirmed the resolution increasing the capital of the company by 4000. Particulars of the proceedings will be found in another column. The agent's report is of a very satisfactory character, and in the eastern mine especially a good course of ore is being laid open in each level. Pennerley, 1 1/2 to 1 3/4; in another column we print the agent's report. The mine is a little improved, and there are one or two points of interest to come off very shortly. The ore sold on Wednesday—80 tons—realised 1200.

At Wheel Peavor the shaft is not yet quite through the slide; the western end of the shaft is pretty nearly through it, and the lode is looking well and improving every foot sunk. The agent is very pleased with its appearance, and has every reason to believe the best has not yet been seen; the shaft is worth 60% per fathom. The 48 west 12% per fathom, and the tribute pitches are looking well.

Subjoined are the closing quotations:—

Bog, 3/4 to 5/8; Deloath, 5/8 to 3/4; East Van, 1/2 to 1; East Canada, 3/4 to 1 1/2; East Lovell, 10 to 10 1/2; Kingston Down, 1 1/2 to 1 3/4; Marke Valley, 1 1/2 to 1 3/4; Pennerley, 1 1/2 to 1 3/4; Penrith, 1 1/2 to 1 3/4; Parys Mountain, 3/4 to 5/8; Roman Gravel, 1 1/2 to 1 3/4; Tincroft, 3/4 to 1; Tankerville, 3/4 to 1; Van Conso, 2 1/2 to 2 3/4; West Esqair Lie, 2 1/2 to 2 3/4; West Chiverton, 1 1/2 to 2 1/4; Wheel Grenville, 4 1/2 to 5; Alameda and Tinto, 3/4 to 5/8; Birdseye Creek, 2 1/2 to 2 3/4; Cedar Creek, 1 1/2 to 1 3/4; Cape Copper, 2 1/2 to 2 3/4; Chontales, 3/4 to 5/8; Don Pedro, 3/4 to 5/8; Emma, 1 to 1 1/2; Eberhardt and Aurora, 4 1/2 to 5 1/2; Flagstaff, 1 1/2 to 1 3/4; Frontino and Bolivia, 7 1/2 to 8 1/2; Last Chance, 3/4 to 5/8; Malpas, 3/4 to 5/8; Malabar, 1/2 to 3/4; New Quebrada, 3/4 to 5/8; Richmond Consolidated, 2 1/2 to 2 3/4; Rio, 2 1/2 to 2 3/4; St. John del Rey, 250 to 260; Sweetland Creek, 2 1/2 to 3; Sierra Buttes, 1 1/2 to 2 1/4; San Pedro, 1 1/2 to 2; Tecoma, 3/4 to 5/8; South Aurora, 3/4 to 5/8; Independence, 1 1/2 to 1 3/4; London and California, 3/4 to 5/8; Blue Tent, 5 to 5 1/2; Holcombe Valley, 1 to 1 1/2; New Pacific, 3/4 to 5/8; Utas, 3/4 to 5/8.

COLLIERIES AND IRON COMPANIES.—Our market has been quiet, though a fair amount of business has been transacted in Thorp's Gawber, Blon and Crump, Cardiff and Swansea, Chapel House, Silkestone Hall, Ebbw Vale, Clee Hill, New Sharlston, Lehigh and Wilkes, and a few others. Offers have been solicited for West Esqair Lie, 2 1/2 to 2 3/4; Pennerley, 1 1/2 to 1 3/4; Penrith, 1 1/2 to 1 3/4; Parys Mountain, 3/4 to 5/8; Roman Gravel, 1 1/2 to 1 3/4; Tincroft, 3/4 to 1; Tankerville, 3/4 to 1; Van Conso, 2 1/2 to 2 3/4; West Esqair Lie, 2 1/2 to 2 3/4; West Chiverton, 1 1/2 to 2 1/4; Wheel Grenville, 4 1/2 to 5; Alameda and Tinto, 3/4 to 5/8; Birdseye Creek, 2 1/2 to 2 3/4; Cedar Creek, 1 1/2 to 1 3/4; Cape Copper, 2 1/2 to 2 3/4; Chontales, 3/4 to 5/8; Don Pedro, 3/4 to 5/8; Emma, 1 to 1 1/2; Eberhardt and Aurora, 4 1/2 to 5 1/2; Flagstaff, 1 1/2 to 1 3/4; Frontino and Bolivia, 7 1/2 to 8 1/2; Last Chance, 3/4 to 5/8; Malpas, 3/4 to 5/8; Malabar, 1/2 to 3/4; New Quebrada, 3/4 to 5/8; Richmond Consolidated, 2 1/2 to 2 3/4; Rio, 2 1/2 to 2 3/4; St. John del Rey, 250 to 260; Sweetland Creek, 2 1/2 to 3; Sierra Buttes, 1 1/2 to 2 1/4; San Pedro, 1 1/2 to 2; Tecoma, 3/4 to 5/8; South Aurora, 3/4 to 5/8; Independence, 1 1/2 to 1 3/4; London and California, 3/4 to 5/8; Blue Tent, 5 to 5 1/2; Holcombe Valley, 1 to 1 1/2; New Pacific, 3/4 to 5/8; Utas, 3/4 to 5/8.

the days of prosperity, and a very dull Christmas is anticipated by many. Along the proposed route of the new railway to the Broton district from Glaisdale, several pits have been sunk on the ironstone by way of trial, with good results. Glaisdale Whinstone Quarry, 21s. to 23s. A prospectus has been issued of the Barrow Hill Hematite Iron Ore Company, formed to work a property near Par, Corwall, in 12,500 shares of 2s. each. It is stated that the ore can be raised for 2s. 6d. per ton, and be delivered in South Wales at a cost of 9s. 6d., the selling price being about 18s. per ton. An output of 200 tons per day can readily be obtained, but assuming only 100 tons to be raised at a profit of only 6s. 6d. per ton, this would give a return of 10,140% per annum, equal to 40 per cent. We are informed the demand for hematite ore is enormous, and constantly increasing. Gigantic fortunes have been and are still being realised. The directors of John Brown and Co. (Limited), Sheffield, have decided to pay an interim dividend at the rate of 7 1/2 per cent. per annum on Dec. 22.

At Swansea Ticketing, on Tuesday, 1032 tons of copper ore were sold, realising 15,711 1/2 4s. 6d. The particulars of the sale were—Average standard for 9 per cent. produce, 108 1/2 9s. 6d.; average produce, 17 1/2; average price per ton, 15 1/2 4s. 5d.; quantity of fine copper, 180 tons 12 cwt. The following are the particulars of the two last sales:—

Date.	Tons.	Standard.	Produce.	Per ton.	Per unit.	Ore copper.
Nov. 3	1472	104 5 0	19 1/2	16 9 7	10s. 6d.	282 10 0
" 24	1032	108 9 6	17 1/2	15 4 5	17 4	86 13 4

Compared with the last sale, the advance has been in the standard 4 1/2 4s. 6d., and in the price per ton of ore about 15s. On Dec. 8 there will be offered for sale 1432 tons, from the Cape, Knockmahon, Berehaven, Var, Bampfyde, Telhadella, and elsewhere.

EXPORTS OF COAL.—By the Monthly Circular of Messrs. Higginson, of Liverpool, we learn that the quantity of coal exported in Oct. was 1,274,669 tons, against 1,044,384 tons in the corresponding month of 1873, showing an increase of 230,285 tons. The particulars are—From the Northern Ports, 552,434 tons; Yorkshire, 99,947 tons; London, 8918 tons; Liverpool, 67,530 tons; Severn Ports, 406,209 tons; and Scotch Ports, 139,633 tons. The increase was—Northern Ports, 30,782 tons; Yorkshire, 37,710 tons; London, 2360 tons; Liverpool, 10,794 tons; Severn Ports, 82,329 tons; Scotch Ports, 66,010 tons. Total exports, Jan. to Oct. inclusive, 10,775,887 tons; increase 1,104,131 tons.

COMMERCIAL ENTERPRISE IN ENGLAND.—In addition to the enormous amount of capital which private firms have invested in commerce and manufactures during the last few years, there has also been an alacrity displayed in the formation of public companies which may fairly be characterised as marvellous. From a return which has just been issued at the request of Sir Charles Adderley, we learn that in 1872 there were 1093 joint-stock companies registered, with a proposed nominal capital of 133,041,395, while in 1873 the number registered was 1224 more, with a nominal capital of 152,056,545. In the same period there were also 28 companies registered without nominal capital, but of these 25 were limited by guarantee. Some of the schemes, as may be supposed, appear to have a good deal of the bubble element about them; but a vast majority of the others are, undoubtedly, based on sound calculations, and cannot fail to add to the general well-being of the community if successfully carried out. Man's ingenuity, prolific though it is, seems to have been pretty well taxed in some instances before a suitable undertaking could be devised. One of the principal channels for the flow of capital is to be found in every land, and to extend to almost every known product beneath the surface of the globe. In many cases it is the coal districts of our own country that are to be still further developed, and in others the sinker and the hewer have to trace "black diamonds" in the valleys of Russia, Sweden, the "Republic of France," and far off New Zealand. Gold has to be sought in the South African Republic, as well as in the United States, California, and Brazil. A venture for silver and gold has to be tried in Australia; Spain has to be ransacked for zinc and copper; the Nevada mountains, as also the great mountain chains of South America, are expected to yield their share of silver. Iron has been hauled from the hills of Prussia and Canada; and, nearer home, we have Montgomery, Antrim, the Isle of Man, and Islay, as fields for copper, lead, and the less costly ores. In Ottawa, by its expected yield of plumbago, we are to have a rival to Borrowdale; but in addition to all this, there is to be a search for barytes in Cumberland. Galicia has to be ransacked for sulphur, and the islands of the Caribbean Sea are to be visited for phosphate of alumina. But extensive as the mineral trade is, it does not exhaust a hundredth part of the inventive faculty possessed by these intending money makers.

CHEMICALS AND MINERALS.—(Messrs. J. Berger Spence and Co., Manchester, Nov. 21).—Soda: Cream, caustic, 60 per cent., 14 1/2; white, 15 1/2; soda ash, 2 1/2 to 2 3/4; soda crystals, 5 1/2 to 6; bicarbonate, 15 1/2; salt cake, 3 1/2 to 4; Glauber salts, 17 1/2 to 18; 6d. to 3/4; Bleaching Powder: At 9 1/2 to 10 1/2; Alum: 8 1/2 for loose lump; ground, 9 1/2; Nitrate of Soda: At 13s. to 13s. 6d.; Ammonia: Sulphate, white and grey, 19 to 19 1/2; carbonate, 7 1/2 to 8; muriate, 30 1/2 to 35 1/2; sal ammoniac, 1st, 45s.; 2nd, 44s.; Potash: Muriate, 80 per cent., at 6 1/2 to 6 1/2; 12s. 6d. f.o.b.; Prussiate, red, 2s. 6d.; yellow, 15d.; chlorate, 10 1/2 to 11d.; bi-chrome, 6 1/2 to 7; Iron Salts: Green and rusty coppers, 60s. to 65s. loose in casks or barrels, 65s.; Copper Salts: Sulphate of copper, 27 1/2 to 28; Litharge: Best flake, 2 1/2 to 3; Sugar of Lead: Brown, 28 1/2 to 29; ditto, white, 4 1/2 to 5; Saltpetre: Foreign, 22s. to 23s. 6d.; refined, 25s. to 26s. 6d.; Acid: Tartaric, English, at 1s. 7 1/2 to 1s. 7 1/2; foreign, 1s. 7 1/2 to 1s. 7 1/2; sulphuric, 3 1/2 to 3 1/2; carbolic, No. 1, 1 1/2 to 1s.; peric acid, 1s. 1 1/2 to 1s.; Arsenic: 11 1/2 to 12; Magnesia: Epsom salts, 4 1/2 to 4 1/2; refined, 4 1/2 to 5; Benzole: 30 per cent., —; 50 per cent., —; 90 per cent., —; Wood Pulp: Labro moist, 5 1/2 to 6; per ton at output, —; Brimstone: Best thirds, 7 1/2 to 8; Phosphate of Alumina, 3 1/2 to 3 1/2; Pyrites: Spanish cupreous, 8 1/2 to 9; non cupreous, 9 1/2 to 10 1/2; China-ash, 18s. 6d. Cornwall; best quality, 25; Phosphates: High strength, 8s. to 8 1/2; per cent., 1s. 4d. to 1s. 5d. per unit; Eastman's, 1s. 3d.; ordinary, 60 per cent., 1s.; precipitated phosphate of lime, 70 per cent., 5 1/2 to 5 1/2; super-phosphates, 80 per cent., soluble, 3s. 6d. per unit; 25 to 26 per cent., 3 1/2 to 3 1/2; Manganese: Ore, 12s. for 70 per cent., Iron Ore: Hematite, 15s. to 22s. 6d.; puddling, 24s. to 27s.; politic, 8s. to 10s.

Mr. J. W. Vickers, of No. 2, Cowper's-court, Cornhill, announces that he has removed his advertising offices to more eligible premises, and that his address is now No. 5, Nicholas lane, Lombard-street, E.C.

With this week's Journal a SUPPLEMENTAL SHEET is given, which contains—Original Correspondence: Conference of the National Mining Association; Board of Examiners for Mining Certificates (E. F. Smith); What is Electricity? (R. J. Crickmer); Patent Law—Specifications (W. P. Thompson); Mining in New South Wales (R. Adams); Copper Mining in South Australia; Russia Copper Company; Tin Miners, and Tin Smelters; Copper Coke Oven; North Wales Quarrymen's Strike; A Cornish Man, Cornish Miners, and Capt. Teague (R. Knapp); Mining Enterprise: West Tostus; R-man Gravel Mine, and Capt. Waters (R. Treddinick); South Cornwall Mine (J. Vivian, H. Waddington, E. J. Bartlett, W. Leach); Australian Mine Reports—Percussive Rock Boring Machinery, and the Darlington Borer (J. Vivian); Foreign Mining and Metallurgy—Patent Matters, &c.—Meetings of the Imperial Brazilian Collieries, Eberhardt and Aurora, Fuller's Reef, Battle Mountain, Devon Great Consols, West Esqair Lie, Hingston Down, Penrith, and Malabar Gold Washing Companies.

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I BUY at the highest prices:—
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ZINC AND LEAD ORES MIXED TOGETHER.

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D. ERNEST MELLISS, A.M., Ph.D.,
MINING ENGINEER AND GEOLOGIST,
52, BROADWAY, NEW YORK, UNITED STATES.
EXAMINES and REPORTS upon MINERAL and other LANDS, MINES, ORE BEDS, &c., either in or out of the United States.

Information furnished in regard to any of the American Mining Districts. Dr. MELLISS has had special experience in the Silver and Gold Mines west of the Rocky Mountains, and in the Coal and Iron Region of the Southern States.

Refers by permission to—W. BUTLER DUNCAN, Esq. (Duncan, Sherman, and Co.), New York; L. P. MORTON, Esq. (Morton, Bliss, and Co.), New York; MARK BRUMAGIN, Esq., President Mariposa Mining Company; JAMES B. HODGSKIN, Esq., Pres. U. S. Mining School; CHARLES A. JOY, Ph.D., Prof. Chemistry, School of Mines, New York; FRIEDRICH WOHLER, Ph.D., Prof. Chemistry, Univ. Göttingen; SARTORIUS V. WALTERHAUSEN, Prof. Geol. and Min. Univ. Göttingen; WALTER WILLIAMS, Esq., Creswell Hall, Stafford, England; JOHN J. CISCO, Esq. (John J. Cisco and Son), New York; S. L. M. BARLOW, Esq., New York; C. P. HUNTINGTON, Esq., Pres. Chesapeake and Ohio Railway; CHARLES F. CHANDLER, Ph.D., Pres. New York Board of Health; J. A. NEWBERRY, M.D., Prof. Geology School of Mines, New York; RUDOLF FITTIG, Ph.D., Prof. Chemistry Univ. Tübingen, Wurtemberg.

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ARE PURCHASERS OF
ANTIMONIAL or HARD LEAD, LEAD MATTE, LEAD SLAGS, LEAD ASHES, SULPHATE OF LEAD, COPPER SLAGS, COPPER REGULUS or MATTE, TIN ASHES, and TIN SCRUFF.
MIXED METALS and DROSS, containing LEAD, COPPER, TIN, or ANTIMONY.

CAZIN'S COMBINATION ORE-SIZER AND CONCENTRATOR ONE-PLUNGER SYSTEM.

In ONE machine—a complete system of ore concentration, when added to a battery of stamps.

Covered by Letters Patent of July 2nd, 1872, and recent application.

This machine contains a sizing apparatus (revolving screen), delivering four sizes of ore to four rows of sieves, each row concentrating according to specific gravity—the sized ore furnished by the sizer. Each row contains five sieves, and to end, on which the ore is submitted to the concentrating action long enough to prevent loss of valuable parts. The machine, continuously fed, works second and third class ore into first-class ore, of perfect cleanliness, in automatic action, and simultaneously in four grades or sizes. It thoroughly separates native gold or copper from quartz or any other matter, galena, silver and silver sulphurets, and pyrites from quartz; galena from baryta or pyrites, and pyrites from quartz. Added to a battery of stamps, this machine constitutes a complete system of ore concentration, sufficient for the requirements of most Western mines, with a capacity of 15 to 20 tons per 24 hours. The same machine is made for working two sizes at the time.

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GOLDENHILL COBALT, NICKEL, COLOUR, BORAX, AND

NEAR STOKES-UPON-TRENT, STAFFORDSHIRE
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Purchaser of Borate of Lime and Tincal.

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STEPHEN BARKER begs to inform the Trade that he has the following articles for sale:—REFINED METALLIC NICKEL.
REFINED METALLIC BISMUTH.
OXIDE OF COBALT.
GERMAN SILVER.—IN INGOTS, SHEET, WIRE, &c.
NICKEL AND COBALT ORES PURCHASED.

LEAD ORES.				
Date.	Mines.	Tons.	Price per ton.	Purchasers.
Nov. 10—	Great Darren	12	£19 15 0	Panther Lead Company.
	Rhosyddol	20	13 19 0	Nevill, Druce, and Co.
20—	Minera	60	15 2 6	Panther Lead Company.
	— ditto	18	14 18 0	ditto
	— ditto	44	15 7 6	Walker, Parker, & Co.
	— ditto	34	15 6 0	ditto
	— ditto	10	15 5 0	Panther Lead Company.
21—	Willoughby	12	14 19 0	Nevill, Druce, and Co.
23—	Lisburne—Glofawr	54	15 17 6	Sheldon, Bush, and Co.
	— Frongoch	70	14 15 0	Nevill, Druce, and Co.
	— Graigoch	50	13 15 0	Panther Lead Company.
	— Bog	60	15 5 0	Walker, Parker, and Co.
	— Pennerley	80	15 0 0	ditto
	— Dyliffe	60	15 10 0	ditto
26—	West Tankerville	25	15 6 6	ditto
	— Islay	10	15 10 0	Sheldon, Bush, and Co.
27—	Rookhope	20	13 13 0	Walker, Parker, and Co.

B L E N D E .				
Date.	Mines.	Tons.	Price per ton.	Purchasers.
Nov. 20—	Minera	57	£ 3 13 6	Vivian and Sons.
—	ditto	32	3 13 6	ditto
—	ditto	33	3 0 0	Tindale Company.
—	ditto	20	2 10 6	Villiers Company.
—	ditto	20	2 8 6	ditto
25—	Bog	20	3 15 0	ditto
26—	West Tankerville ..	40	3 13 6	Vivian and Sons.

BLACK TIN.					
Date.	Mines.	Tons c. q. lb.	Price per ton.	Amount.	Purchasers.
Nov. 18—Pedra an-drea	15 11 1	15	£58 2 6	£ 904 19 2	Redruth.
19—Penhalls	10 18 0	20	—	632 19 10	Daubuz.
—Wheel Uny	15 3 0	17	55 13 4	843 15 5	Redruth.
25—Blue Hills	5 4 0	12	—	286 8 4	Daubuz.

COPPER ORES.

Sampled November 4, and sold at Swansea, November 24.

Mines.	Tons.	Produce.	Price.	Mines.	Tons.	Produce.	Price.
Cape Ore	74	31 1/2	£27 18 6	Var Ore	105	17 1/2	£15 7 6
ditto	74	31 1/2	28 0 6	St. Josephs	10	21 1/2	18 16 6
ditto	74	31 1/2	28 0 0	ditto	6	19 1/2	17 4 6
ditto	73	31 1/2	28 0 6	ditto	3	40 1/2	36 0 6
ditto	35	31 1/2	28 0 6	Copper Stud.	8	25	21 3 0
Union Ore	145	4 1/2	3 1 6	Copper Ore	6	12 1/2	11 0 0
ditto	88	10 1/2	8 9 0	Concordia	5	23 1/2	20 5 0
Berehaven	102	8	6 16 6	White Metal	5	24 1/2	16 5 0
ditto	93	8	6 18 0	Copper Stuff	3	52 1/2	44 9 6
Precipitate	61	15 1/2	11 2 6	Sweepings	2	6	4 12 0
ditto	60	15 1/2	11 0 0				

TOTAL PRODUCE.

Notices to Correspondents.

* Much inconvenience having arisen in consequence of several of the Numbers sent during the past year being out of print, we regret that the Journal should be filed on receipt; it then forms an accumulating work of reference.

MINERS' WAGES.—Can any correspondent inform me the title, price, &c., of a work by Walter Rowley, Secretary of the West Yorkshire Miners' Union, giving a table of advances of miners' wages?—TRADE.

MELINDUR VALLEY.—It should be Tinwell, &c., instead of Cwm Shop. They are adjoining properties, hence the error in my remarks on the Melindur Valley.—S.

DOUBTFUL MINERALS.—"T. A. R." (Liverpool).—In accordance with your request, we have read your letter on this subject in last week's *Chemical News*, and find it interesting and amusing, but with the appearance of having been written, to use the language of "T. A. R.," after an over free use of the archaean. It may be admitted that "some of the present names of minerals are simply silly," and yet it does not follow that either Maskelyne or Dana should be jeered for the nomenclature they propose. Upon the whole, we prefer Dana, because we believe his nomenclature more likely to be generally adopted. In chemistry the very general use of the metric weights and measures, and the close similarity of the nomenclature in the principal European languages, has already been productive of great advantage, and it would be a matter for congratulation if similar uniformity could be secured in mineralogy. We admire "T. A. R." for saying—"Being the nature of 'T. A. R.' to stick to a subject, I retain my antiseptic initials, because I tremble at the very thought of their eminences the cardinals of chemistry and their sovereignty to atomise," and congratulate him that pitch and tar are not, among scientific men, considered as identical; other wise his company might be objectionable to his best friends. "T. A. R." should remember that the French, Germans, Italians, Spaniards, Russians, &c., could all adopt the names chalcopryite, chalcocite, &c., without offending the popular prejudices of their uneducated fellow countrymen, whilst to hope for the adoption of the purely English terms would be as futile as to secure the common use in England and America of Kupferglanz, sulfure de cuivre, &c., for copper glance and copper pyrites.

MR. ENNOR'S LETTERS.—Does any reader know anything about the late Mr. N. Ennor's promised book—whether it is published or about to be published; and, if not, why not reprint his letters in the *Mining Journal* (which have appeared from time to time) in a small volume, as they would be beneficial to the mining community?—E. S.

THE SHROPSHIRE LEAD MINES.—The last sentence in my letter, in the Supplement to last week's *Journal*, should read—"In case the suggestion that other than Cornish mines should (have an association should) be considered to have practical value, I should be happy to try to carry it out." The words between the parentheses were omitted.—K. J. MOORE: *Linley, Bishop's Castle, Nov. 28.*

THE SUPPLEMENTARY SHEET.—We have received occasional complaints, and of late a good many, that the *Journal* is delivered by country booksellers without the Supplement. Subscribers would oblige us by demanding that the paper should be handed to them complete, as every *Journal* is accompanied by the Supplement when it leaves our office, and the fault of omission must rest with the country bookseller or their London agent.

SCALE FOR ADVERTISEMENTS.—Our charge for general advertisements is—for six lines and under, 4s.; per line afterwards, 8d. Average, 12 words per line.

RECEIVED.—"T. W. G." (Tavistock).—"M. J. D."—"W. J. J." (Italy). Next week—"Amenusius."—"M. C." (Dulwich).—The publication of the letter from "Medius" would cause a correspondence that we should not care to create, and certainly could not find space to publish—"Shareholder" (South Condlow).—"E. J."—"Constant Reader."—"A Novice" should require an exchange of references—"C. H. S."—"W. W."—"J. C." (Bridgend).—"A Large Shareholder" (Richmond Consolidated). Next week.

THE MINING JOURNAL,

Railway and Commercial Gazette.

LONDON, NOVEMBER 28, 1874.

THE MINERAL RESOURCES OF THE UNITED KINGDOM.

Notwithstanding the constant complaints that were heard during 1873 of the great depression existing in connection with almost every department of the mineral and metallurgical industries, the official returns, which will be issued next week, and for an early copy of which we are indebted to Mr. ROBERT HUNT, F.R.S., the Keeper of Mining Records, show that as compared with the preceding year there was an increase in the aggregate value of metals produced and minerals raised to the extent of considerably more than 500,000*l.*, and that the decline was not serious with regard to any particular metal. The total value of the metals produced and of the coal and other minerals raised during 1873, in the United Kingdom, was 70,722,992*l.*, the increase being due entirely to the increase in the get of coals, which represented an increase of 1,300,000*l.* in value. It is gratifying to find that the percentage of increase in the production is less than in the preceding year, and that whilst the rise in 1872 was from 117,350,000 tons to 123,500,000 tons, it was, in 1873, but from 123,500,000 tons to 127,000,000 tons, showing in round numbers an increase of 6,000,000 tons in 1872, and of only 3,500,000 tons in 1873. We subjoin, as usual, the general summary for the last two years, in order that the movement of the several products may be compared:—

MINERALS.	Raised in 1872.	Raised in 1873.
Coal	123,497,316 Tons. £46,311,143 Value.	127,018,147 Tons. £47,631,280 Value.
Iron ore	16,584,857 " 7,774,874 " 15,577,499 "	14,885 " 1,056,835 "
Copper ore	91,983 " 443,738 "	80,188½ " 342,708 "
Tin ore	14,266 " 1,246,135 "	14,885 " 1,056,835 "
Lead ore	83,918 " 1,146,165 "	73,500½ " 1,131,097 "
Zinc ore	18,543 " 73,951 "	15,969 " 61,168 "
Iron pyrites	63,916 " 39,470 "	58,924 " 35,485 "
Arsenic	5,172 " 17,064 "	5,448½ " 22,854 "
Bismuth	2 " 20 "	1½ " 68 "
Cobalt	— " — "	— " 12 "
Manganese	7,773 " 38,865 "	8,671½ " 57,766 "
Ochre, amber, &c.	3,327 " 8,227 "	6,368½ " 5,410 "
Wolfram	88 " 993 "	50 " 526 "
Fluor spar	81 " 40 "	— " — "
Chloride of barium	65 " 130 "	— " — "
Clays	9,093 " 7,078 "	10,269½ " 7,993 "
Brays—blue and fire, and shale (estimated) ...	1,200,000 " 450,000 "	1,785,000 " 656,300 "
Coprolites	35,000 " 50,000 "	— " — "
Salt	1,399,498 " 654,748 "	1,785,000 " 892,500 "
Earthy minerals, various (estimated) ...	650,000 " — "	— " 3,000 "

Total value of minerals produced.....£58,913,541.....£59,479,486

There are several features in the new return which would appear to require some little explanation; the number of enumerated minerals has not been increased, yet the estimate for the unenumerated earthy minerals has been reduced from 650,000*l.* to 300,000*l.*; which naturally raises the question whether it should not be 300,000*l.*; if so, the correction should be made before the return is issued to the public; it is curious that the tonnage of clays and salt should be identical, though, of course, both may be correct; coprolites have disappeared from the present return, although it can scarcely be supposed that their production has ceased; and it would be interesting to know whether there has been no fluor-spar or chloride of barium produced, or whether it is merely an absence of returns. It is not improbable that attention to these points would show that the real increase has been greater than the return indicates. The variation in the yield of the other ores requires no special comment.

METALS OBTAINED FROM THE ORES ENUMERATED.

	1872—Tons.	Value.	1873. Tons.	Value.
Iron, pig	6,741,929	£18,540,304	6,566,451	£18,057,739
Tin	9,560	1,459,990	9,972	1,329,766
Copper	5,703	583,232	5,240	502,822
Lead	60,455	1,209,114	54,235	1,263,375
Zinc	5,191	118,076	4,471	120,999
Silver	628,920	167,230	537,707	131,077
Other metals (estimated) ...	—	2,500	—	5,000
Total value of metals		£22,070,447		£21,409,878
ABSOLUTE TOTAL VALUE OF THE METALS AND COAL, with other MINERALS, which are not smelted (except Building Stones, Lime, Slates, and Common Clays), produced in the United Kingdom:—				
	1872.	1873.		
Value of the metals produced	£22,070,447	£21,409,878		
Value of the coal	46,311,143	47,629,787		
Value of other minerals	1,811,825	1,681,834		
Total value	£70,193,415	£70,722,999		

ABSOLUTE TOTAL VALUE OF THE METALS AND COAL, with other MINERALS, which are not smelted (except Building Stones, Lime, Slates, and Common Clays), produced in the United Kingdom:—

Value of the metals produced£22,070,447.....£21,409,878

Value of the coal46,311,143.....47,629,787

Value of other minerals1,811,825.....1,681,334

Total value£70,193,415.....£70,722,992

As Mr. Hunt has only been enabled to produce these returns by

the liberal assistance of our colliery owners, mine proprietors, agents, and others, he takes the opportunity to express his thanks to them. He is not indebted to those Inspectors of collieries and metalliferous mines who have, in the most friendly manner, assisted his enquiries to the limits of the restrictions, as to coal returns especially, under which they labour. To these, and to the secretaries and managers of our railways and canals, from whom he has received the most courteous attention and information, which was prepared for his use by the expenditure of much valuable time, he also tenders his thanks, as a small acknowledgment of the liberal aid they have given to the objects of the Mining Record Office.

The value of all statistics being determined by their accuracy, Mr. Hunt judiciously states the sources whence his information is derived, and from the particulars which he gives there can be no doubt that he has used his utmost efforts to make the returns reliable. The returns relating to the metalliferous mines made to the Inspector for Cornwall, Devonshire, and Somersetshire have been deposited by the Home Secretary in the Mining Record Office. These have, of course, been used; but as only the ore raised is required by the Act, many of the mines have given this alone. Therefore, the produce for metal, and the value, had still to be ascertained. This has been done by obtaining the returns made to the Stannaries Court and to the Duchy of Cornwall, and by carefully examining the Ticketing Papers of the copper ore sales in Cornwall and at Swansea. The Mining Record Office has obtained, in addition, returns from a large number of the mines of Cornwall and Devonshire, and from tin streams and open workings, which do not come under the operation of the Metalliferous Mines Regulation Act, 1872. The returns of production from all the mines in other parts of the United Kingdom have been obtained, as they have always hitherto been, by Mr. Hunt's direct application for them.

Equal care was taken in the compilation of the colliery statistics. To the largest number of the coalowners of the United Kingdom a circular was sent, soliciting a return of the coal raised from their collieries in 1873, and other information. Two-thirds of the circulars issued were promptly returned, with the questions most fully answered. Several Coal Mining Associations furnished Mr. Hunt, in confidence, with exact information; and from the overseers of several parishes he has received similar assistance. In addition, the production of large districts, collected with great care, was placed at his disposal. The information thus obtained has enabled him to compute, with accuracy, the production of collieries amounting to more than 120,000,000 tons. All the great coal-carrying railways of the United Kingdom, and several of the canals, have furnished the most detailed returns of the coal carried from each coal field and its distribution, frequently giving, in confidence, the collieries from which it was obtained. All the shipments of coal, both to foreign parts and coastwise, are furnished by the order of the House of Commons, and all the collieries sending coal to within the London district are given in the City of London returns. Nearly all the ironmasters have furnished him with the quantities of coal used in their works from their own collieries, or purchased from others. From the information thus obtained he has been enabled to compute that about 7,000,000 tons of coal were produced beyond the quantity named above. But he desires this to be clearly understood to be an estimate, although he is satisfied a fairly exact one. As already stated, the owners of blast-furnaces, of mills and forges, and of tin-plate works, have responded most freely to the application made from the Mining Record Office; and to the smelters of tin, copper, lead, and zinc, and to the proprietors of metal precipitating works, he is under considerable obligations for much information. From the liberal way in which the proprietors of clay works, barytes manufacturers, and others, have supplied returns, he is enabled to give additional matter in the present return. Mr. Hunt has carefully verified his results by a thoughtful examination of the distribution of coal, so that full confidence may be placed in the figures.

By way of introduction to the return, Mr. Hunt makes a reference to the Mining Record Office, which is worthy of the attention alike of miners and capitalists. He remarks that considerable loss of capital has frequently resulted from attempts to mine in localities where a little knowledge of what had been previously done would have shown there was but small prospect of success. Through ignorance of the existence and exact extent of old and abandoned mine-workings, great danger to the miner is frequently incurred, and human life has been often sacrificed. The great object in the preservation of the plans and sections of mines and collieries is the prevention of such loss of property and sacrifice of life. A large collection of these records of our subterranean operations are deposited, and important statistical details showing the real value of all our mines are kept, in that office, under the superintendence of the Keeper of the Mining Records. They are made available for the instruction of students, for the use of the Geological Survey, and they may be consulted by any of the public who are interested in the working of the mineral productions of the United Kingdom. In future *Journals* the statistics will be more fully referred to, as well as details concerning several minerals, &c., embraced in the return.

COAL IN INDIA.

A statement which has obtained currency apparently with the official imprimatur of the noble marquis who now presides over the destinies of British India, to the effect that discoveries of native coal have been made on an extensive scale in that vast dependency of the English Crown, must be regarded with extreme interest by all who have business relations with our eastern territories. The gradual growth of railways in India has led to the exportation to our eastern territories of an amount of English coal which can ill be spared from the home markets, while this coal costs so much when delivered at (say) Bombay that its use leaves comparatively little profit to the consumer. If India is to achieve any decided material progress her coal resources must clearly be turned to more account than they have been hitherto, and if the Marquis of SALISBURY can inaugurate a policy which will endow India with cheap and reasonably good supplies of native coal he will deserve to be ranked among India's greatest benefactors. Cheap coal would encourage steam navigation upon some of the rivers of India, and would also assist the development of new railways. The success of an Indian railway may be said to be almost entirely dependent upon its proximity to a native coal field. The East Indian Railway uses native coal upon a considerable scale, and is enabled in consequence to give its stockholders a small supplementary dividend in addition to the comfortable 5 per cent. per annum guaranteed by Her MAJESTY'S Secretary of State for India in Council. The Great Indian Peninsula Railway and the Bombay, Baroda, and Central India Railway import considerable quantities of English coal—at any rate, sufficient quantities to leave their mark upon the half-yearly balance-sheets of both undertakings—and the result is that they are not remunerative concerns, and could not hold up their heads at all in the money market unless they were enabled to shield themselves behind a guarantee, which we have already described—and we think justly described—as "comfortable."

It is the loss on the guarantee account occasioned by such undertakings as the Bombay, Baroda, and Central India and the Great Indian Peninsula which has caused successive Secretaries of State for India to pause long and anxiously before they have sanctioned the commencement of oft-discussed and much-required State lines. The consequence is that, although we have acquired by means of the railways which we have developed upon the soil of British India a tolerably good strategic hold upon the Peninsula of Hindostan, inasmuch as we have established railway communication between Bombay, Madras, and Calcutta, while we have carried the iron horse as far north as the Punjab, we have failed at present to give an industrial impetus to India—such an impetus, that is, as would result from a vigorous working of Indian coal, and a steady construction of local railways. We have no right to hold India as a vast parade ground upon which to manoeuvre a comparative handful of costly European soldiers and a crowd of not altogether reliable native troops. The only ground upon which our occupation of India can upon any pretext be justified is that our rule is more beneficent, both morally and materially, than that of the feeble Asiatic potentates whose thrones we have occupied, and whose territories we have

absorbed. It is not only the establishment of more railways and more lines of steamships which would be assisted by the energetic and successful working of the native coal of India, but such a working would encourage the development and growth of the native industries of India, and possibly, also, promote in many ways the comfort of the few thousands of our English fellow-subjects whose lot it is to live and labour in the national interest in India. In every way, indeed, the utilisation of the coal of India would be an immense boon to that vast and interesting portion of the British empire whether we regard it from a political or a commercial point of view. It should be the glory of England to leave India in every respect better than she found it, and to do this she must neglect nothing calculated to turn the resources of India to the fullest possible account.

COAL-CUTTING MACHINERY.—An experimental trial was made last week at the Alexandra Foundry, Leeds, with the machine invented by Mr. J. Rothery, of the Waterloo Main Colliery, and to which reference has several times been made in the *Mining Journal*. The test was made upon a large block of coal sent there for the purpose. As is the case with all new inventions, Mr. Rothery has had some difficulty in correcting trifling errors in detail, but his three or four years' exertions appear to be now crowned with success; in the trial in question the cutting properties of the machine were in every way satisfactory; in fact, it appears to cut a block of coal with the same facility as a circular saw would cut a block of wood. The machine is made to do all the holing and vertical cutting required in straight work as well as holing in any long work or modified system. After the experiment some slight alteration to the frame of the machine and the method of propelling it was suggested by Mr. Easton, the engineer of the firm, so that it will not be practically used in the pit quite so soon as was anticipated.

COAL AND IRON IN THE UNITED STATES.—The Boston and Lowell Railroad Company is steel-railing its line, and proposes to lay down steel rails throughout upon it. The anthracite coal movement of Pennsylvania to Oct. 24 this year amounted to 14,794,698 tons, against 15,890,700 tons in the corresponding period of 1873, showing a decrease of 1,197,102 tons this year. The bituminous coal movement of Pennsylvania to Oct. 24 this year was 2,745,559 tons, against 2,712,438 tons in the corresponding period of 1873. The aggregate coal movement of Pennsylvania to Oct. 24 this year thus presented a decrease of 1,062,881 tons. The coal and coke tonnage of the Pennsylvania Railroad to Oct. 24 this year was 2,604,014 tons. The coal production of the Schuylkill district has been especially large of late. The American coal markets appear to be fairly active, there being large supplies on hand. The last public sale of Scranton coal at New York showed an average advance in prices of 18 cents per ton. A Missouri coal company has been organised.

MINERAL WEALTH OF BRITISH COLUMBIA.—In the year ending June 30 the exports from British Columbia were of the value of \$2,061,743, the gold dust and bars exceeding a million, and very nearly a million consisting of other products, chiefly wool, furs, coal, timber, and fish. The gold exports in the three months ending Sept. 30, amounted to \$407,734; and in September alone, \$190,000; and these statements are exclusive of gold shipped in private hands. A nugget weighing over 46 ozs., and worth upwards of \$700, was recently taken out of Dease Creek; it is stated that this is the largest nugget that has been found in British Columbia. The north-east end of Vancouver's Island is thought to be rich in minerals, as well as in cedar, fir, and white pine, as Mr. J. Coon has ascended Nimpkish river 8 miles to a lake 15 miles in length, crossed the lake, and ascended Camascena river, finding gold diggings that will pay \$3 a day to the hand. On the lake a coal seam was seen, and copper and iron were met with everywhere.

IRON TRADE IN INDIA.—A wealthy firm in Calcutta, resolved to be among the first in attempting the revival of the Indian iron trade, will shortly open new works in the Beerbhoom district, near the Synthea station of the East India Railway.

THE DIAMOND DRILL.—THREE FATHOMS PER DAY.—As much interest is now being taken by British miners in the question of the relative merits of prospecting by the diamond drill as against other methods, the following work which has been completed at Bohmische Brod, in Austria, by the diamond drill will be read with interest. The performance is a most extraordinary one, and is, so far as is known, entirely beyond anything that has been done by any other method. The Bohmische Brod borehole has, with the diamond drill, been completed to the depth of over 2000 ft. in one week under four months, including all stoppages. In reporting upon the work, Mr. Thomas J. Bewick, C.E. and M.E., writes that the actual boring was commenced on July 15 last, and on Nov. 8 the depth was 1931 Vienna feet, equal to 2001½ English feet. At commencement bored 35 ft., when stopped by fall of ground; 13 more, equal to 48; lined with 5-in. tubes, and then bored up to 96 feet with 4-in. crown. Lost water by a cleft at 73 ft. Bored to 180 ft. with 4-in. crown. Again lost water from tubes not being close to the bottom. Withdrew 96 ft. of tubes, and widened the hole to 180 ft., with 5-in. crown. Lined with 5-in. tubes to that depth, and continued with 3-in. crown to bottom. No more tubes required after 180 ft. Usual recent rate of boring 30 to 40 feet per day of 24 hours (two shifts of 12 hours each). Boring is in New Red Sandstone formation. Conglomerate occurred from 520 to 580 ft., 680 to 850 ft., and 1200 to 1510 ft., equal to 540 ft. in all. The pebbles were firm, with but few loose stones. The conglomerate consists of porphyry, Silurian shales, granite, and quartz. The rest of the strata is the usual sandstones, shales, and marls in the New Red Sandstone formation.

BLASTING WHINSTONE WITH DYNAMITE.—Through the influence chiefly of Lord Kinnaird and the experiments with dynamite at Rossie Priory, the use of this valuable blasting agent has now been successfully introduced into Perthshire for quarrying purposes. Mr. Robert Monteith, Forteviot, was induced, through Mr. John Dow, Perth District Road Superintendent, to give dynamite a trial, and the first experiments were made at Freeland Quarry, Bridge of May, Torrence, and Struie Quarries, in all of which the rock is a very fine, strong, compact whinstone. In every instance the experiments were eminently successful, and in the opinion of those present dynamite is much more effective than gunpowder. In some instances, where only two bores were made in the rock, about 30 tons of labour were dislodged. The most striking advantage is in the great economy of labour effected. Smaller and fewer bore-holes are required with dynamite, and hence there is also a great saving of tools and blasting fuse. Little or no stamping or stemming is required, loose sand, clay, or water being sufficient. In the experiments referred to water was employed. Mr. Monteith deserves much credit for having been, as it were, the pioneer in the employment of this highly valuable industrial agent in Perthshire, and it is hoped the other quarrymasters will follow Mr. Monteith's excellent example.

BATH COLLIERY (near Bath, Somersetshire).—A seam of coal, 4 ft. in thickness, dipping south-west, has been cut during the week at this colliery, about 60 fms. from surface, in the new pit now sinking, about 700 yards south of the old pit and workings. The coal is of very good quality, and suitable for both house and steam purposes. This discovery, proving coal over a very large area of the new land acquired by the company about a twelvemonth ago, is most important and valuable to the whole district.

CORNISH PUMPING ENGINES.—The number of pumping-engines reported for Oct. is 16. They have consumed 2142 tons of coal, and lifted 15,200,000 tons of water 10 fms. high. The average duty of the whole is, therefore, 47,700,000 lbs., lifted 1 ft. high, by the consumption of 112 lbs. of coal. The following engines have exceeded the average duty:—

Cremor and Wheel Abraham—Sturt's 90 in.	Millions 56-6
Ditto ditto —Pelly's 80 in.	48-8
Ditto ditto —Willyams's 70 in.	48-7
Cook's Kitchen—85 in.	54-7
West Basset—Thomas's 60 in.	48-4
West Chiverton—New 80 in.	48-4
West Wheel Seton—Harvey's 85 in.	50-8

MOTIVE POWER FROM NATURAL GAS.—Messrs. Rogers and Burchfield, of Apollo and Leechburg, Pennsylvania, have utilised a gas vein for creating the motive power for their machinery. After boring to a depth of 1200 ft. at Apollo, they have at length struck a vein of gas which more than realises their most sanguine expectations. The same firm made a similar discovery at Leechburg, in this county, over a year ago, and are now running the whole of their ex-

tensive iron and rolling establishments there with gas for fuel as a substitute for coal, turning out over 80 tons of iron per day. They propose to utilise this new discovery for the same purpose as Apollo. These mills have been in operation for some time past, notwithstanding the dullness of the times, giving employment to several hundred men, and under the entire management of Mr. Wm. Rogers, jun. Our correspondent adds that when this natural gas has been utilised it will at once save Mr. Rogers \$150 per day in coal.

REPORT FROM CORNWALL.

Nov. 26.—Steady and quiet progress has been the characteristic of the mining affairs of the county during the week. We are still waiting for the long-delayed advance in the tin standard, but, meanwhile, shareholders in copper mines have been greatly cheered by the substantial improvement which has taken place in the standards for copper. Our copper mines, no less than our tin mines, have been greatly in need of encouragement, and it is exceedingly satisfactory to see that so many progressive copper mines are now entering the Dividend List. Both for tin as well as copper mines 1875 ought to show a very marked improvement upon 1874. Concerning the prospects of lead mining there is not much to be said. Mary Ann and Trelawny are gone; West Chiverton is, to put the best face upon it, not looking lively; Herodsfot maintains its own; but Old Treburget is the only one that appears to be really doing well. It is to be hoped that the attempt to resuscitate Wheals Ludcott and Wrey may succeed.

The changes at West Chiverton and South Cordarrow still continue to occupy attention. The best proof that can be given of the estimation in which Capt. Juleff's abilities as a miner are held is that since he left the former mine he has received a superior appointment. We shall see by-and-by what the new management at West Chiverton is made of, though we hope for the sake of fair play that it will not be made responsible for the deficiencies of the mine. The general feeling in the county concerning South Cordarrow is, as we have already said, that no charge of want of efficiency can be laid against the Messrs. Vivian. There has evidently, however, been a good deal of friction in the relations between them and the committee; hence the unfortunate turn which affairs have taken. Mutual confidence and respect are even more essential elements in the conduct of mining enterprise than in ordinary business concerns.

In their bearing upon the interests of mining the new parliamentary or railway notices are not of very great importance, except in one direction, and railway enterprise in the West evidently shares in the dullness prevalent throughout the country. We have heretofore noted the fact that the Truro and Perran line is to be abandoned. A bill will, however, be brought on for a line for the Bodmin and Wadebridge Railway through the North of Cornwall to a junction with the Launceston and South Devon Company's line at Launceston. This would be in effect an extension of the Cornwall Minerals Railway system, and would have very important results in the development of a district of great importance and promise in many ways; which contains the Old Treburget Mine and a large area of lode-traversed ground, and which contains also the extensive and important slate quarries of the Delabole district. Another project which may have some relation to mineral productions is for the improvement of the Old Plymouth and Dartmoor Railway, which traverses a district abounding in granite, and having extensive deposits of china clay.

The traffic on the Cornwall Minerals Railway is steadily increasing, though it is almost entirely confined to china-clay, and for the present the huge piles of iron ore which have been and are being raised at Perran remain undiminished. Never within the memory of the oldest inhabitant was Fowey one-tenth so busy as now. Several vessels frequently arrive in one day, and the facilities for shipment are so great that they are dispatched with the utmost promptitude. And yet the system is in its infancy.

Mr. Robert Hunt, F.R.S., the Keeper of the Mining Records, has been enabled this year to issue his Mineral Statistics at an earlier date. As yet, however, we have only the general summary before us, and cannot, therefore, present a clear and adequate view of the produce of the two great mining counties of the West—Cornwall and Devon. Tin ore, however, so far as the United Kingdom is concerned, is only raised within their limits, and, therefore, Mr. Hunt's figures thereon apply only to them. He gives the black tin raised in 1873 as amounting to 14,884 tons 17 cwt., of a value of 1,056,835*l.*; so had nearly all the copper ore raised in the United Kingdom come from this district, and we find that their production was 80,188 tons 10 cwt., of a value of 342,708*l.* Iron, lead, and zinc ores and mounds are of too general occurrence to render the quotation of the figures concerning them any adequate guide to the yield of Cornwall and Devon, but there are certain smaller matters which may be claimed as almost, if not quite, exclusively to be reckoned among their items of mineral wealth. Thus we find that arsenic was produced to the value of 22,854*l.*; manganese to the value of 57,760*l.*; ochre and amber, 5410*l.*; wolfram, 526*l.*; bismuth, 68*l.*; cobalt, 12*l.* The production of black tin as compared with 1872 shows a slight increase of 619 tons.

The annual meeting of the Royal Institute of Cornwall has been held this week at Truro. The report of the council recommended that M. Moissonet, as a recognition of the great value of his work on the rich parts of lodes, should be elected a honorary member, which was done. The chief parts of M. Moissonet's treatise are being translated by Mr. J. H. Collins, F.G.S., and will appear in the annual report of the Miners' Association. Dr. Jago, F.R.S., continues President of the Institution for another year. Among the presentations to the museum announced were some specimens of copper ore from the Cape, from Mr. John Michael Williams; of tin ore from Australia, by Mr. Nicholas; and of the mineral wavelite—rare in Cornwall—from Mr. J. H. Collins.

TRADE OF THE TYNE AND WEAR.

Nov. 26.—The Coal and Iron Trades continue very dull, on the whole, and short time is worked at many of the works both in Northumberland and Durham. Good house coal is still sold at 16*s.* per ton and steam coal at 14*s.* per ton, but the demand for the latter is very limited. Coke of best quality still brings 14*s.* to 15*s.* per ton. At most of the coal works throughout the great district short time has been resorted to, with a view of possible keeping the price of coal up to a point that will enable the masters to pay the present rate of wages, and make fair profits also. This accounts for the curious fact that coals of best quality are still kept up to comparatively high prices, but as inferior coals of all kinds and manufacturing and small coals are sold at low rates only few masters got the benefit of the higher rates. It is clear that the men by the action of their Unions have for the time put an end to a great extent of free trade so far as getting labour and selling coal is concerned, but how long this will continue in the face of constantly increasing production it is difficult to say. A strike of miners has taken place at the Woodhouse Close Collieries, near Auckland. It appears that six-day men have been paid what they conceive to be 5*d.* per day less than the average wage received by that class of men in the county, and on the masters refusing to pay this wage the whole of the men, numbering 200, have turned out.

Most of the new winnings for coal and extension of old works are making progress, and there is a full supply of men of all kinds for the work. Of course, the high rate of wages received by the miners continues to attract men from other occupations, and the dull state of many branches of trade also operates in the same direction.

The Iron Trade continues very quiet, on the whole, but prices are well maintained, and the demand for pig continues pretty good; foundry has been very flat, while for forge-iron there is a good demand, and large deliveries have been made. It is not likely that any change of importance will now take place in this trade during the present year. At Middlesbrough, on Tuesday, there was a good attendance, and quotations were as follows:—No. 1, 6*s.*; No. 3, 6*s.*; No. 4 foundry, 6*s.*; No. 4 forge, 5*s.* 6*d.* to 5*s.* 6*d.*, net cash, f.o.b. There continues to be a large shipment of iron. The finished iron trade shows no improvement, and there is, of course, no probability of the works closed being started again at present. The rail trade is exceedingly dull, and manufacturers have very bad prospects. Some branches of the iron, engine, and foundry trades are prosperous, and many good orders are in hand on the Tyne for marine and loco-

motive engines. The iron shipbuilding trade is at present dull. The demand for plates and bars continues pretty good; quotations are without change. At the Wotton Park Ironworks a number of puddlers, ball furnaces, &c., have been paid off owing to the dullness in the trade.

REPORT FROM SCOTLAND.

Nov. 25.—The Warrant Market was very inanimate during the latter part of the past week, but the price was maintained at a comparatively high point betwixt 87*s.* and 86*s.* This week there has been more desire shown to realise. On Monday business was done from 85*s.* 3*d.* to 85*s.*, and yesterday as low as 84*s.* cash was accepted for several lots, closing rather firmer, with buyers offering 84*s.* 6*d.* Today business has been done at 84*s.* 6*d.* for prompt cash, closing sellers thereat. There is not much change to report in makers' prices, but in one or two cases reductions have taken place, and the tendency is rather in favour of buyers.

	No. 1.	No. 3.
G.m.b. at Glasgow (deliverable alongside)	90 <i>s.</i> 0 <i>d.</i>	81 <i>s.</i> 0 <i>d.</i>
Gartsherrie ditto	105 0	85 0
Coltness ditto	102 6	85 0
Summerlee ditto	97 6	82 0
Carnbroe ditto	94 0	82 0
Monkland ditto	90 0	81 0
Clyde ditto	90 0	81 0
Govan, at Broomielaw ditto	90 0	81 0
Langloan, at Port Dundas ditto	102 6	83 0
Calder ditto	105 0	83 0
Glenarnock, at Ardrossan ditto	96 0	84 0
Eglinton ditto	88 0	79 6
Dalmellington ditto	88 0	80 6
Carron, at Grangemouth, selected, ditto	100 0	—
Shotts, at Leith ditto	100 0	84 0
Kinnell, at Boness ditto	95 0	78 6
Bar iron	£10 0	—
Nail rods	10 0	—

Week ending Nov. 21, 1874	Tons 13,700
Week ending Nov. 22, 1873	10,324
Increase	3376
Total decrease since Dec. 25, 1873	151,409
Imports of Middlesbrough pig-iron into Grangemouth:—	
For the week ending Nov. 22, 1873	Tons 2,977
For the week ending Nov. 21, 1874	2,495
Decrease	482
Total increase for 1874	47,463

The tendency of the prices of pig-iron is to greater ease, parcels being placed for January next at a little over 83*s.* a ton. Some of the favourite brands of makers' iron are even now purchasable at about 2*s.* 6*d.* under late quotations, showing that there is rather a tendency to lower prices. The stock in Connal's store is now about 23,000 tons, and the furnaces in blast are nearly equal to the same period of last year, the number being 120 against 122. Makers are rather willing sellers, and are doing what they can to augment stocks, which have become so depleted by the irregular way in which the miners have laboured during the earlier months of the year.

The untoward condition of the Finished Iron Market has had the effect of reducing prices below the list, 9*s.* 12*s.* 6*d.* to 9*s.* 15*s.* being now the current quotations, less the usual discount for bars. Makers have no hope of bettering their condition till the beginning of the year, when they expect to see some briskness. It is reported that a large contract for pipes for the Continent has been placed here, and it is said that there are further enquiries for the same class of castings. Melters may thus look forward to a good trade in the beginning of the year. The shipbuilding trade is still unsettled, waiting the announcement of the amount of the reduction which is to take place from the 30th current; and marine engineering will be simultaneously affected by the result, whether for good or evil.

The prices of Coals are so weak that a reduction in household descriptions is imminent. In shipping coals there is no change, prices being very low. On the East Coast a little more is being done, both in shipping and household, but the stocks remain undiminished. Wishaw, 8*s.* to 9*s.*; splint, 8*s.* 6*d.* to 10*s.*; house, 8*s.* 9*d.* to 12*s.*; steam, 9*s.* 6*d.* to 11*s.* 6*d.*; gas, ordinary, 18*s.* to 20*s.*; best, 37*s.* 6*d.* to 40*s.*

A brisk correspondence has been carried on during the last 10 days regarding the uncertainty of the weight of coal cargoes, and which vary very much from the quantity shipped when they arrive at their port of destination, much to the annoyance of coal brokers who supply the cargoes and also to the shippers. There is no doubt that this difficulty could be effectually overcome by the use of Duckham's patent hydrostatic weighing machines, and for which Kennedy, Bennett, and Co., St. Enoch-square, are the agents. These machines simply hook on to the crane, and by means of a self-indicating dial the weight is shown while the wagon or other article is being swung on board. The energetic engineer of the Clyde Trust has recognised their utility by employing them in connection with several harbour cranes, where they may be seen almost daily at work. They have been extensively adopted in Her Majesty's dockyards and the principal harbours and works in the kingdom; and recently, after a series of severe tests, have been reported on most favourably, and recommended for use in the service by the commissioners appointed by the United States naval authorities.

The estate of Drimsynie, Argyllshire, is reported to have been purchased for Mr. Hugh Neilson, ironmaster, for 32,700*l.*

THE SCOTCH MINING SHARE MARKET—WEEKLY REPORT AND LIST OF PRICES.

During the week business has been small, and prices declined, with very few exceptions. Coal shares are flat; Niddrie, however, keep remarkably firm, and have further advanced. Copper shares are nearly all lower, but not flat, as a good demand has been kept up for most of the latter descriptions by investors. Dunsley Wheel Phoenix have further declined to 4*s.* 3*d.*, but will doubtless improve again as soon as they commence to take tin down from the recently discovered lode. In American shares and Oil shares no movement of importance has taken place. In Miscellaneous London and Glasgow Engineering and Iron Shipbuilding Shares, at 23 to 25, have fully recovered the late depression, but will still at present prices yield 16 per cent. on an investment. A detailed list of the several days' business follows:—

On Thursday last the market was rather flat, and prices declined, with the exception of Niddrie. Benhar done at 14*s.*; Cairnstable, 5*s.* 5*d.*; Ebbw Vale firmer, at 22*s.* 2*s.*; Emma done at 20*s.*, closing 20*s.*; 21*s.*; Glasgow Caradon done at 33*s.* 6*d.*, closing 33*s.* 6*d.*; Port Washington done at 80*s.*, but close 77*s.* 6*d.*; Marbella done at 6*s.* and 5*s.*, closing 5*s.* 5*d.*; Merry and Cuninghame done at 72*s.* 6*d.* and 72*s.*, closing 72*s.* 6*d.*; just; Monkland done at 90*s.*, closing 90*s.*; 91*s.*; guaranteed preference unaltered, at 8*s.* 8*d.*; Niddrie were in good demand, done at 5*s.* and 5*s.* 6*d.*, then went up to 5*s.* and 5*s.*, closing at these prices; Tharsis were largely dealt in, but declined on realisations, closing 27*s.* 2*s.*; new shares also weak, at 19 to 19*s.*; Young's Paraffin rather lower, at 5*s.* 5*d.*; London and Glasgow Engineering advanced to 22*s.* buyers, but no sellers.

On Friday a good business was done, but prices were mostly lower. Benhar done at 14*s.*, closing 14*s.*; Cairnstable, 5*s.* 5*d.*; Emma done at 20*s.* 6*d.*, closing 20*s.* 6*d.*; Glasgow Caradon opened good, at 34*s.*, on the result of the sale of ore yesterday, but again declined, and close 33*s.* 6*d.*; Port Washington done at 80*s.*, closing 75*s.* to 78*s.*; Huntington done at 57*s.*, closing 56*s.* 6*d.* to 57*s.* 6*d.*; Marbella again lower, done at 5*s.*, closing 5*s.* 13 10ths to 5 15 10ths; Merry and Cuninghame firm, done at 72*s.* 6*d.*, closing 72*s.* 6*d.* to 73*s.*; Monkland ordinary done at 90*s.*, closing 90*s.* to 91*s.*; Guaranteed preference, 8*s.* 8*d.*; Niddrie again in good demand, at 60*s.* to 60*s.* 6*d.*; this price makes a rise of 10*s.* per share since last Friday, and has mainly been occasioned by a rumour that the Benhar and Niddrie Companies are going to amalgamate at par. Panucllo wanted, at 3*s.*, but no seller under 1*s.*; Tharsis opened at 27*s.*, but declined to 27*s.*, closing firmer again, at 27*s.* 2*s.*; new shares unchanged, at 19 to 19*s.*; Young's Paraffin, 5*s.* 5*d.*; London and Glasgow Engineering, at 23 to 25, have fully recovered the late depression.

On Saturday a small business was done, and prices were mostly lower. Cairnstable, 5*s.* 5*d.*; Canadian Copper Pyrites, flat, at 45*s.* to 45*s.*; Cwm Bychan, steady, at 3*s.* 3*d.*; Cwm Lery 3*s.* 3*d.* better, at 3*s.* 3*d.*; Ebbw lower, at 22 to 22*s.*; Emma, 21*s.* to 22*s.*; Glasgow Caradon done at 32*s.* 6*d.*, closing 32*s.* to 33*s.*; the sale of copper ore, on Thursday, by this company was exceedingly good—better than any one for the last 14 months at least. The amount of ore sold was 240 tons, realising 1506*l.* odd, or an average of 12*s.* 6*d.* per ton; at this time last year the amount was 250 tons, which realised 1290*l.* odd, or an average of 10*s.* 3*d.*; it will thus be seen that Glasgow Caradon is getting fully 22*s.* more per ton for its produce than it did at this time last year. The price of the shares was then 41*s.* to 42*s.*, now they are 32*s.* to 33*s.*; surely there is room here for a great improvement in price. A comparison with last month's sale is equally favourable. Gunnislake (Clitters), lower, at 1 to 1*s.*, notwithstanding that a dividend of 1*s.* per share was declared at the meeting on Thursday. Huntington done at 57*s.*, closing 56*s.* 6*d.* to 57*s.* 6*d.*; Marbella, done at 5*s.*, closing 5 13 10ths to 5 15 10ths; Merry and Cuninghame, 72*s.* 6*d.* to 73*s.*; Nant-y-Glo and Blaenau, preferred, done at 44 to 45*s.*; Niddrie, done at 60*s.*, closing 60*s.* 6*d.* to 61*s.* 6*d.*; Tharsis done at 27*s.* 2*s.* and 2*s.*, closing 27*s.* 2*s.*; new shares, 19 to 19*s.*

On Monday a fair business was done, but the market was without animation. Benhar, 14*s.* to 14*s.*; Canadian Copper Pyrites firmer at 45*s.* to 45*s.*; Cairnstable, 5*s.* 5*d.*; Ebbw Vale improved to 22*s.* 2*s.*, but close unchanged at 22 to 22*s.*; Emma firm, at 21*s.* to 22*s.*; Glasgow Caradon better, at 1*s.* to 2*s.*; Glasgow Caradon unchanged, done at 32*s.* 6*d.*, closing 32*s.* 6*d.* to 33*s.*; Port Washington, 75*s.* to 78*s.*; Huntington done at 57*s.*, closing 56*s.* 6*d.* to 57*s.* 6*d.*; Marbella firmer, done at 5*s.* and 11*s.*, closing 5*s.* to 5 15 10ths; Merry and Cuninghame

done at 72*s.*, closing 72*s.* 6*d.*; the all-paid shares, however, declined to 9*s.* to 10*s.*; Monkland ordinary, 89*s.* to 90*s.*; Guaranteed Preference, 8*s.* 8*d.*; Niddrie again strong, done at 62*s.*, with buyers over, sellers at 63*s.*; Onna and Cleland flat, done at 54*s.* 6*d.*, closing 54*s.* to 55*s.*; Tharsis done at 27*s.*, closing 27*s.* 2*s.* to 27 10ths; New shares weak, done at 19, with sellers remaining, buyers at 18*s.*; Young's Paraffin done at 5*s.*, closing good at 5*s.* to 5*s.*; Scottish Wagon, 12 1 10th to 12 1 10th; A transaction took place to-day in the shares of the Richmond Consols Mine at 13*s.*

On Tuesday the business done was small, and prices were not much altered, although the tendency was downwards. Cairnstable shares done at 10*s.*, and a small lot also at 5*s.*; Cwm Bychan shares lower, at 3*s.* to 3*s.*; Cwm Lery shares also lower, at 3*s.* to 3*s.*; Dunsley Wheel Phoenix shares were pressed for sale, the last report from the mine not being considered satisfactory; transactions took place as low as 2*s.*, but the close is better, at 3 10ths to 3*s.*; Ebbw shares done at 22*s.*, closing 22*s.* 2*s.*; Emma shares, 21*s.* to 22*s.*; Glasgow Caradon shares firm, at 32*s.* to 33*s.*; new shares better, at 21*s.* 6*d.* to 22*s.*; Huntington shares also better, done at 57*s.*, closing 57*s.* to 58*s.*; Islay Lead shares still firm, at 3 10ths to 3 10ths; Marbella shares lower, done at 5 13 10ths and 5 15 10ths; Monkland ordinary shares, 89*s.* 6*d.* to 90*s.*; guaranteed preference shares done at 8*s.*, closing 8*s.* to 8*s.*; Niddrie shares done at 62*s.*; Panucllo shares firm, at 3*s.*; Gunnislake Australian shares, 13*s.* to 14*s.*; the directors of this company announce that they have received advice from the Lantton Colliery, dated Oct. 1. The sales of coal for the month of September amounted to 11,233 tons. With reference to the company's new copper property near Rockhampton, the details of the purchase of which and an extract from Capt. J. H. Holman's report on it, which was exceedingly favourable, appeared in the half-yearly report lately issued. Mr. Morehead, the manager of the company in Australia, reports that Capt. Holman had commenced to open it up, and was raising good ore, also expressed himself on this closer examination as fully satisfied that it would bear out the very favourable opinion above referred to. Tharsis shares quite neglected, done at 27*s.*, closing 27*s.* 2*s.*; new shares done at 19. Young's Paraffin shares, 5*s.* 5*d.*

On Wednesday a small business was done, and prices generally declined. Benhar, flat at 14*s.* to 14*s.*; Cape Copper, 30*s.* 3*s.* to 30*s.*; Emma done at 21*s.*, closing 21*s.* to 22*s.*; Huntington done at 57*s.* 6*d.*, closing 57*s.* to 58*s.*; Gunnislake (Clitters), 1 to 1*s.*; it is expected that this company will be able to declare another dividend at their next meeting. Javali in demand at 4*s.* to 5*s.*; Lochore and Capleirae lower, at 7*s.* to 7*s.*; Marbella also lower, done at 5*s.* 13 10ths, and 5 15 10ths, closing 5*s.* 13 10ths to 5*s.* 15 10ths; Merry and Cuninghame done at 72*s.*, and 72*s.* 6*d.*, closing at these prices; Monkland ordinary done at 90*s.*, 89*s.*, and 89*s.* 6*d.*, closing 89*s.* nominal, 13*s.* to 13*s.*; Niddrie done at 62*s.*; Onna and Cleland very flat, done at 54*s.*, 54*s.*, and 47*s.* 6*d.*, closing sellers at 47*s.* 6*d.*, buyers 48*s.*; Tharsis shares were not much dealt in, from 27*s.* to 27 10ths, closing 27 10ths to 27*s.*; new shares, 18*s.* to 19*s.*; West Maria and Fortescue in good demand, at 4*s.* to 4*s.*; York Peninsula ordinary very firm at 8*s.* 9*d.* to 11*s.* 3*d.*; and the Guaranteed Preference in demand, at 4*s.* to 5*s.* Subjoined will be found the latest prices:—

Amount	Amount	Name	Latest price.
£10	4	Arniston Coal (Limited)	13 1/2
10	10	Benhar Coal (Limited)	13 1/2
100	35	Bolekov, Vaughan, and Co. (Limited)	5 1/2
10	5	Cairnstable Gas Coal (Limited)	10 1/2
10	10	Chillington Iron (Limited)	6
82	29	Ebbw Vale Steel, Iron, and Coal (Limited)	22 1/2
10	3	Fife Coal (Limited)	5 1/2
10	7	Glasgow Port Washington Iron and Coal (Limited)	7 1/2
10	10	Lochore and Capleirae All paid	6 1/2
10	10	Lochore and Capleirae All paid	7 1/2
10	10	Marbella Iron Ore (Limited)	7 1/2
10	3 1/2	Merry and Cuninghame (Limited)	72 1/2
10	10	Monkland Iron and Coal (Limited)	89 1/2
100	100	Nant-y-Glo and Blaenau Ironworks pref. (Limited)	46
10	2	Niddrie Coal (Limited)	62 1/2
10	4	Onna and Cleland Iron and Coal (Limited)	47 1/2
1	1	Scottish Australian Mining (Limited)	1 1/2
50	50	Shotts Iron	78 1/2
10	4	Tharsis New, issued at 2 1/2 premium	0
COPPER, LEAD, SULPHUR, TIN.			
10	7	Canadian Copper Pyrites (Limited)	47 1/2
10	10	Doitto All paid	6 1/2
10	7	Cape Copper (Limited)	30 1/2
1	1	Cwm Bychan Silver Lead (Limited)	3 1/2
1	1	Cwm Lery Lead (Limited)	3 1/2
5	5	Drake Walls Tin and Copper	5
2	2	Dunsley Wheel Phoenix Tin (Limited)	2 1/2
—	25	East Black Craig Lead (Limited)	32 1/2
1	1	Glasgow Caradon Copper Mining (Limited)	32 1/2
1	15 <i>s.</i>	Doitto New	21 <i>s.</i> 6 <i>d.</i>
—	5 1/2	Gunnislake (Clitters)	1 1/2
10	9	Huntington Copper and Sulphur (Limited)	57 1/2
1	1	Islay Lead (Limited)	3 1/2
25 <i>s.</i>	25 <i>s.</i>	Kapunda Copper (Limited)	3 1/2
4	4	Pannellito Copper Mining (Limited)	3 1/2
10	9	Rio Tinto (Limited)	8 1/2
10	10	Russian Copper Mining (Limited)	2 1/2
10	10	Tharsis Copper and Sulphur (Limited)	27 1/2
10	7	Doitto New	19
—	5 <i>s.</i>	West Maria and Fortescue	3 1/2
1	1	York Peninsula Mining (Limited)	8 1/2
1	5 <i>s.</i>	Doitto 15 per cent. Guaranteed Preference	3 1/2
GOLD, SILVER.			
5	5	Colorado Terrible Mining (Limited)	4
20	20	Emma Silver Mining (Limited)	21 <i>s.</i>
10	10	Flagstaff Silver Mining (Limited)	1 1/2
2	2	Javali Gold Mine (Limited)	4 1/2
5	5	Last Chance Silver Mining (Limited)	1
OIL.			
10	7	Dalmeny Oil (Limited)	5 1/2
5	5	Mellorhan Mineral Oil (Limited)	5
10	10	Scottish Mineral Oil (Limited)	5
10	10	West Calder Oil (Limited)	7 1/2
10	8 1/2	Young's Paraffin Light and Mineral Oil (Limited)	5 1/2
MISCELLANEOUS.			
10	10	Conglog Slate and Slab (Limited)	10 1/2
10	10	Highland Peat Fuel (Limited)	10
50	25	London & Glasgow Engineering & Iron Shipbuilding	23
1	1	North Cornwall Kaolin (Limited)	1 1/2
20	7 1/2	Peruvian Nitrate (Limited)	5
10	10	Scottish Wagon Company (Limited)	12 1/2
10	1	Doitto New	22 <i>s.</i>

(Last day for this account Nov. 26; settling day, Nov. 30.)
NOTE.—The above list of mines and auxiliary associations is as full as can be ascertained, Scotch companies only being inserted, or those in which Scotch investors are interested. In the event of any being omitted, and parties desiring a quotation for them, and such information as can be ascertained from time to time to be inserted in this list, they will be good enough to communicate the name of the company with any other particulars as full as possible.

J. GRANT MACLEAN, Stock and Share Broker
Post Office Buildings, Stirling, Nov. 26.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Nov. 26.—The condition of the South Staffordshire Iron Trade this week in regard to new transactions has been one of dullness. Manufacturers of unbranded finished iron are experiencing considerable competition on the part of producers in the North Country districts, especially in nail sheets, which are offering at 10*s.* per ton below South Staffordshire prices. Common bars are changing hands at 9*s.* 5*s.*, and common sheets (singles) at 12*s.* 5*s.* per ton. Branded iron remains on the two-fold basis of

consumers, stocks in the district being by no means heavy. The finished iron trade is very quiet, and there is little prospect of an early improvement. The output of coal exceeds the current demand, though the latter is steadier than recently reported.

To-day's quotations on the Birmingham Stock Exchange included the following:—Chillington Iron, 6½; John Bagnall and Sons (Limited), 7½; Pelsall Coal and Iron, 2½ dis.; Patent Shaft and Axle (Limited), 6 prem.; Patent Nut and Bolt (Limited), 4 prem.; Gloucester Wagon, 15; Birmingham Wagon, 17½; Muntz's Metal (5½), 3½ prem.; Cannock and Huntington Colliery, ¼ dis. The general tone of the market for stock and shares in local mining and manufacturing concerns is, on the whole, steadier than we were able to report a fortnight ago.

The question of the profitable utilisation of blast-furnace slag, in which direction successful experiments have been made on the Continent, is engaging the attention of some of the leading ironmasters in North and South Staffordshire.

At the Tipton Police-court on Tuesday a marine store dealer, named Wynn, was convicted of purchasing a load of iron without making any register of the transaction. He was fined 20s. and costs, a previous conviction being proved against him.

An important decision has been pronounced this week by Mr. Rupert Kettle in the Dudley County Court on the oft-disputed point as to whether colliers were entitled to the perquisite of "allowance coal" during illness. The case resolved itself into the question of local custom, and after hearing a large number of witnesses the judge decided in favour of the miner by whom in this instance the claim was made. A case was, however, granted for a superior court.

The demand for machine castings and other iron foundry produce of the heavier class is moderately well sustained in the Black Country, and at the machinists' and fitting shops there is a very fair degree of activity. Wrought-iron tubing, except in the gas-tube branch, does not show any great improvement since our last report. For light miscellaneous hardware of most leading descriptions the demand begins to grow quieter, as usual at this period of the year.

REPORT FROM MONMOUTH AND SOUTH WALES.

Nov. 26.—There still no appreciable change to be noticed in the Iron Trade, and but little better prospect of improvement. It is hardly to be expected that the reduction in the wages rate will cause much activity in business for a few weeks, if at all. Finished iron does not appear to be in request on any account, and as the end of the year is so near it cannot be expected that buyers will make any speculative purchases. Though the reduced rate of wages will prove some relief to manufacturers, it will not enable them to lower quotations to such an extent as will offer an inducement to customers to purchase beyond their requirements, which are, and probably will be, small for some time to come. The clearances of railway iron to the foreign markets, it is hardly necessary to say, continue very small.

It is gratifying to find some signs of resuscitation at the Cyfarthfa Works. That establishment has been little better than at a stand still for some months past, and there has been a good deal of distress in the neighbourhood in consequence. This week one or two of the mills have been set in motion, and it is expected that from time to time the various departments will again be in operation. As a sort of counterbalance, however, the Cyfarthfa Works, in the Aberdare district, have been stopped this week, and the majority of the men who were employed there have sought employment in other localities.

But little further has been said by the ironmasters about the 10 per cent. reduction; but the ironstone miners appear still to be in a ferment about it, though they have not struck. Meetings have been held during the week, at which resolutions have been passed expressing confidence in the Union, and determination to support it.

The position of the Tin-Plate Trade has undergone no further appreciable change. A meeting of tin-plate workers has been held this week to consider a proposition made by some half-dozen of the masters. They intimated to the men their desire to establish a board of conciliation, so as to avoid strikes or lockouts in the future. This is what the men have agitated for some time, but before accepting the proposition now, they have appointed a deputation to wait on the six masters in question, to ascertain whether their proposition represents the wish of the whole of the tin plate masters.

The colliers, who thought themselves secure from the misfortune that had befallen the ironworkers and miners, have been taken by surprise this week. At a meeting of the colliery proprietors at Cardiff, and presided over by Mr. R. Fothergill, M.P., the following resolution was passed:—"It being the unanimous opinion of this meeting that a reduction in wages is necessary, it is resolved that, in conformity with the arrangement made with the men on Aug. 26 last, the men's representatives be invited to meet the council on Friday." To some most intimately acquainted with the movements of the masters a foreshadowing of this course was observable perhaps a week ago, but, generally speaking, the announcement conveyed in this resolution is about as unexpected as ever was experienced. The reason given by the colliery proprietors for this step is that, except for best qualities, they experience very considerable difficulty in securing customers for their coals, and prices are very low. It must be admitted that while latterly there has been a brisk trade going with the foreign markets, the home coal business has shown a general falling off, while the output has been increasing. There is no doubt, however, that the employer will have considerable difficulty in convincing the colliers that the reduction now proposed is really forced for, and it may be expected that some determined opposition will be offered to the carrying out of the reduction. The notice given to the men is very short, and it is hardly likely that they will be prepared to meet the Council on Friday (to-morrow), because they have not had time to confer with each other on the matter.

At the Brynorchard Coal and Coke Works important extensions and improvements have of late been carried out, and the company will shortly be selling a large quantity of coal and coke. For coking purposes the Brynorchard coal is not to be excelled. The company consists mainly of Birmingham capitalists.

REPORT FROM THE FOREST OF DEAN.

Nov. 26.—The strike is firm and determined, neither party being willing to give way. The colliers, indeed, feeling and knowing that trade was brisk, and that prices tended upwards, consider that they have just cause for resisting a 10 per cent. reduction, are fully resolved to stand their ground. The masters who gave notice of reduction have issued a letter this week, in which they furnish their reasons for insisting upon the drop, the principal of which are the adoption of the eight-hour system, paying the men for weight. The eight-hour system they put down at 25 per cent., and 40 per cent. on wages, whilst their loss for paying the men for cutting coal by weight instead of by guessing they put down as equal to 13 per cent. loss, so putting all together they say the difference to them amounts to about 80 per cent. This method of computing is very unsatisfactory to the public, and the men on strike consider the reasons are worthless in point of argument. For as to the eight-hour system, that does not affect the coal cutters' wages, since they are paid not for time, but for tonnage, or the actual amount of work done. Then as for the loss of 13 per cent. by paying the men by the ton instead of the old loose way, the men look at the averment as proof of the injustice which in this matter was formerly inflicted upon them. And as the masters' reference to the Radstock men's wages, they repudiate the arbitration of Judge Kettle in their case, since he proceeded upon a false basis—i.e., by giving the masters 6d. a ton, on any basis was formed, under the pretence that the Mines' Act had entailed upon them additional expense, but as nothing of the kind has been conceded in any other part of the kingdom the Forest men do not intend to adopt it as a precedent. Another argument used by the masters is that at the Speech's House meeting last spring an agreement was made that if wages went down generally in other places the Forest men were to come down too. This version of the spring meeting, however, was not current at the time; and as now it is a disputed fact, if a fact, only the explanation of one side has been heard, and that not fully, we must wait to hear what Mr. Thos. Halliday has to say on the points raised by the masters, since he took a prominent part in that settlement. At present trade is at a dead lock as regards the "noticing" collieries, and it is truly sad to see the immense numbers of trucks all along the railway and sidings waiting to be filled, and nothing to cheer one with the hope that they will be speedily set in motion.

REPORT FROM DERBYSHIRE AND YORKSHIRE.

Nov. 26.—Very little change has taken place in the state of the iron and coal trades of Derbyshire, both of them being in a healthy state. A good deal of ironstone is being imported from Northamptonshire, and there is a full average make of pig in the southern and northern districts. In manufactured iron a steady business is being done, both in mill material and foundry work. Considerable progress is being made in the construction of the railway between Nottingham and Derby by the Great Northern, and which will be the means of opening out several extensive fields of coal, and ironstone as well. The coal trade has been very good so far as households are concerned, and rather more is being done with London, where prices are now about as high as they have been during any period of the year, although there is certainly no scarcity of coal. In the lead mining districts, including Wirksworth, Hasp, Cromford, Eyam, &c., the men are working steadily, but there has been no increase of late in the output of ore.

There is more activity in some branches of the Sheffield trades, especially in light fancy goods and silver-plated ware, and also in some descriptions of cutlery. The armour-plate mills have been doing very well, both on home and foreign account, but Bessemer material is not in such active request as it has been. The enquiry for rails is by no means active, and it is evident that the Sheffield manufacturers are at a disadvantage as compared with the works at such places as Barrow. There is rather more doing in cast-steel, whilst the malleable works con-

time to be well employed. In the district to the north of the town of Sheffield the mills and foundries are now doing very well, particularly the latter, there being a good many orders in hand in connection with the new collieries now being opened out in nearly all directions. The demand for coal throughout the South Yorkshire district has rather improved of late, the weather of the last day or two having stimulated purchases. Steam coal, however, is not in such good request as it has been, shipments to the North of Europe having terminated for the season from the Humber ports. A large tonnage of Silkstone has been sent over the Great Northern to King's Cross, and the depôts in the metropolis. There is scarcely so much doing in engine fuel with Lancashire and Cheshire now that the miners in West Lancashire have resumed work. A large colliery, midway between Barnsley and Wakefield, it is understood, is going into "limited," as it is termed.

ASSURANCE OF COLLIERY OWNERS FROM LOSSES BY STRIKES.—During the strike which took place in South Yorkshire and North Derbyshire in July last against a proposed reduction of wages the coalowners determined to form a company, with a capital of 200,000l., in 10l. shares, to protect their interests. The Memorandum of Association was drawn up by Mr. Robert Baxter, of Westminster, the well known parliamentary solicitor, and presented and agreed to at a meeting held in Doncaster. The objects were stated to be "To afford relief to members subjected to losses by strikes of workmen, as well as in respect to the expenses of the pits as of the failure of the profits during the strike.—2. To assist in the settlement of all disputes between the members and their workmen, and to pay expenses incident to such settlement." Each firm has to assure its profits at a rate not exceeding 2s. 6d. per ton. Payments of assurance to be made in each case by the association in respect of profits on the quantity of coals actually being worked at the time when the pit was put on strike or restriction, taken on the average workings during the previous three months, such average not to exceed the rate at which the colliery is assured. In case of strikes, restrictions, or disputes, a meeting shall be called to consider the matter, and the owners of the colliery affected shall be guided by the instructions of that meeting as to the course to be pursued. The company has just been formed, and a large number of shares have already been taken up, as the whole will be, it is expected, in the course of a very short time. South Yorkshire and North Derbyshire will now have the most powerful combination of colliery owners in the kingdom, as it has also one of the strongest and wealthiest of Miners' Associations.

LIFE-SAVING APPARATUS—THE AEROPHORE.

The compact and thoroughly practical character of the aerophore has been already referred to in the *Mining Journal*, and its value has just had a further practical test in connection with the engineering works now going on at Daunt's Rock, Cork Harbour, for the purpose of testing the efficiency of a new diving apparatus patented by Denayrouze and Co., as a means by which the surveys can be more quickly executed. This firm has quite a European reputation for its inventions in connection with submarine and mining apparatus. For many years the company supplied the British Admiralty with what diving costumes they required, and those were, during the time that Denayrouze and Co. had the contract, considered the best that were made. They have obtained, amongst many prizes, gold medals of the Great Exhibition of Paris in 1867 (the only one awarded for diving apparatus); Havre, 1868; Lyons, 1872; and Vienna, 1873. They held the British contract until the siege of Paris stopped all Parisian trade, and prevented exports altogether. The obstacles, however, have now been removed, and a London branch of the firm has been established and placed under the management of Mr. R. Applegarth, a gentleman of great energy, and of extensive practical knowledge of submarine and subterranean mining. He arrived in Cork in the early part of the week, to look after the interests of the firm. In the experiments at Daunt's Rock Mr. Guichard, a member of the Paris firm, also took part, and they created very great interest, as the Government had officially accepted Mr. Applegarth's offer to place at their disposal the newly-invented submarine lamp, and because while the diving apparatus contained in itself all the recent improvements known to diving appliances, it had the additional merit of containing and embracing the means of communicating with the diver while under water, or at the bottom of a mine, and enabling him to communicate his wants to those on the surface by word of mouth. It was claimed for the invention that this could be done at any depth, and the greater depth the more distinct the diver's voice could be heard. Wednesday's experiments were simply of a military character, and consequently no civilians were present except the local agent for dynamite, an explosive which is considered very powerful for carrying out such works. They were carried out under the personal superintendence of Lieut.-Colonel Warren, R.E., commanding Royal Engineers of the south-west district, and were most successful.

In order to test the new speaking apparatus, Lieut. Chermide, R.E., went down, and several of the navy and military officers communicated with him by word of mouth when he was under water with most satisfactory results. When he had been down, as some thought, long enough, Capt. Stewart asked him would he wish to come up, and he replied that he would, his voice being clearly heard over water, although he was then down 7 fms., thus proving how successful is the speaking apparatus. When Lieut. Chermide came to the surface the submarine lamp was put over the side of the boat and lowered 6 fms. It was drawn up at intervals, and was shown to remain under water for about an hour, and when brought to the surface the light was as brilliant as when it was sent down. This proved how effectual this invention will be when divers have to descend into dark water at night time, or when it is necessary they should examine wrecks, for heretofore they had to trust mostly to accident if, in groping their way through ships' cabins they found any of the valuable property they were in search of.

It is only since M. Denayrouze invented a practical submarine lamp that the use of the diving dress could be adopted with utility in mines, and, although the application of these apparatuses is quite recent, they have proved of the greatest service in mines all over the Continent. The appliances were first adopted by the Germans, and they have proved very successful, as official reports state, in Westphalian and other continental mines. After the successful trial of the lamp, Sergeant Rees, an experienced and accomplished diver, went down in a Denayrouze dress, and descended to the extreme length of the air tube, which was 100 feet, and he felt so comfortable even at that depth that he had to be prevented from going further. He was spoken to through the speaking apparatus, and he answered all the questions plainly. The apparatus is composed of an india-rubber tube ending with a union joint, which is screwed on to an economised joint in the helmet, which serves as a sound box. The other extremity of the tube has a mouthpiece, by which the attendant sends down an order to the diver, or against which he places his ear when he wishes to hear an answer. The undulations of the sound strike against the thin metallic surface of the chamber of the helmet, and the words are distinctly heard by both. By this invention operations of the most arduous and dangerous nature are rendered comparatively easy and safe, as the diver is enabled to explain by word of mouth any difficulty or danger he may be contending with. As it was the testimony of Lieut. Chermide and Sergeant Rees that they could hear much that was said to them, and as all that was said below water could be heard on the surface, it was considered that the speaking apparatus was a very successful invention, but that, like every new one, it required practice, and then it was generally believed it would be perfect. The divers connected with the Revenge were also under water in the naval regulation dress, but it was the general opinion that the Denayrouze costume, which is cheaper and lighter, was much more perfect.

Subsequent experiments were made at Spike Island Barracks for the purpose of testing the Denayrouze mining apparatus. A room, carefully closed to prevent ventilation, was filled with smoke by the ignition of a tar barrel, saltpetre, sulphur, and charcoal being also placed in the fire to charge the smoke with gases of the most poisonous and deadly character. It was in this poisonous atmosphere that the patentees of the new machines proposed to test their aerophore, as the new apparatus is called. It was not without feelings akin to apprehension that we witnessed the first experiment of a man going into and living in that deadly smoke. The first experiment was made with a steel knapsack, which has just been adopted by the Prussian military authorities for mining purposes. This knapsack consists of three barrels, made in the shape of a knapsack, and weighs about 26 lbs. It is intended as a portable air-carrying vessel, and contains sufficient compressed air to enable a man without the aid of other machinery to live for 15 minutes in any atmosphere, no matter how noxious. The knapsack is first supplied from the air-pump with compressed air representing 20 atmospheres. It is then strapped on the back of the operator, who is provided with a pair of spectacles surrounded with an air chamber, which presses so closely against the face as to protect the

eyes from the effect of gases. The spectacles are also provided with a simple arrangement for gripping the nose, and so preventing the admission of foul air into the lungs through the nostrils. The most ingenious parts of the invention, however, are the regulator and respirator. The air coming from the knapsack passes into the regulator, which regulates the quantity of air necessary for breathing freely. The regulator consists of an air-chamber, which is closed by a metallic cap, covered with indiarubber. Through this passes a small rod working in a cylinder, which opens and closes with the inhalation and exhalation of the operator. The breathing tube is fixed under the air chamber, and at the other end is a mouthpiece, or flange, made of indiarubber, which is placed between the lips and teeth. To it are attached two projecting pieces, by which it is held firmly in the mouth. No air can pass into the mouth except that which the person draws through the tube. The respirator, or exhaling valve is that by which the exhausted air from the lungs is discharged without danger or difficulty. It is so constructed as to prevent the entry of the external air into the air reservoir, whilst at the same time it renders the movement of breathing perfectly free. Equipped in this machine, and provided with a lamp, which, like the aerophore, is specially patented, Mr. Salmon, the diver of the firm, entered the smoky cell. After being a short time in he returned, stating he had not sufficient air. This was remedied by the simple turning of a valve in the regulator, and Mr. Salmon returned to the room with his lamp. At this time the atmosphere inside was so thick that one looking through the window could not observe the fire inside. Neither could the operator nor his lamp be observed, and the fact of his being alive at all was only indicated by the noise of the exhaling valve, which resembled that of a man smoking. After being in the room five or six minutes the operator was called out, and when the mouthpiece and spectacles were removed he did not appear in the least degree oppressed, or in the want of breathing power.

Another description of machine, called "The Low Pressure Mining Apparatus," was next tested. This is worked by an air-pump similar to that required for the ordinary diving apparatus, and so long as the pump continues to act it will furnish pure air to the miner for an indefinite period. The two most important novelties are the regulator and the lamp. The regulator has two objects; it provides at the same time the air necessary for the miner and for the lamp; its weight is under 8 lbs. The lamp in outward appearance, weight, and size is identical with the ordinary safety-lamp, but it differs from them entirely on principle, inasmuch as it burns in an atmosphere wholly independent of that of the mine, the air coming from the regulator being always exempt from carburets of hydrogen. The lamp will, therefore, burn with perfect safety in the midst of the most noxious gases. The small weight and size of the regulator allow the workman complete liberty of movement. A private soldier and Mr. Guichard entered the chamber together equipped in this apparatus. For 28 minutes they remained inside, and before they came out Mr. Guichard taught the soldier how to speak, and a conversation, which was audible to those outside, was carried on between the two. They experienced no disagreeable sensation whatever, and, in fact, they could have remained there for any indefinite time. This machine is especially intended for mining operations, and on this subject the inventor has the following observations:—"There may from time to time arise special cases during accidents or from other cases when it is necessary not only to descend into the mine at once, but even to explore it to a considerable distance. Now if, once for all, ordinary precautions are taken beforehand to have the tubes properly disposed and wound in coils, the air-pump and the regulator may be connected with them in a few seconds. The pump is of so simple a nature that it can never, either from ignorance or disuse, fall into disrepair, whilst the internal valve of the regulator is so protected as to render it impossible for it to get out of order.

With regard to distant workings, it is evident that the depth which a miner can reach must be limited by the length of tubing at his disposal; and if it were necessary to work the pump outside the mine, this objection would in many cases prove fatal, but the pump itself is so small that it can be worked in a gallery, however narrow, and carried either by hand or on a small truck to the very threshold of the scene of the accident. To meet the objections which may, however, be raised against the use of a long length of tubing, M. Denayrouze has introduced certain modifications to his original invention in the high-pressure apparatus. In this last-named machine there are six cylinders, which are capable of holding sufficient compressed air to last an ordinary person for two hours. By means of the air-pump the reservoirs are filled with compressed air to a pressure of 20 atmospheres. To one of these tanks or reservoirs is attached the tube which supplies the miner and the lamp with air, this is further attached to the regulator which the miner carries on his back. Over the supply of air he has full control, and he can regulate it at pleasure, either for his own breathing or for the light of his lamp. The exchange of empty for full cylinders can, as a matter of fact, be effected without the least interruption to the work, and thus a practically inexhaustible supply of pure air can be assured to the miner, no matter at what distance he may be from the pit's mouth. The lamp which is used in conjunction with the other inventions is almost similar to the ordinary safety-lamp, but there is this difference, that the great principle of the former is to support combustion within the lamp, not by means of the surrounding air, but through the agency of pure air passing through the regulator carried by the miner on his back.

As many of our mining engineers will be desirous of seeing the aerophore in use it may be mentioned that on Dec. 2 there will be a meeting of the South Wales Institute of Engineers, at Newport, when the aerophore and apparatus connected with it will be exhibited, and a paper read upon them. The new Prussian military apparatus will be shown and explained at the meeting, and will be referred to in our usual report of the proceedings.

HEATING LARGE TOWNS WITH PYROGEN GAS.

With coals at present prices, and the prospect of a sharp winter before us, the value of a proposal by which a given quantity of heat can be obtained with only two-fifths of the fuel now used will be readily estimated. Such a proposal is made in a pamphlet by Sir Francis C. Knowles, Bart., M.A., F.R.S., just printed for private circulation (Wyman and Sons, Great Queen-street), in which he very fully discusses the whole question of heating. He mentions that the annual consumption of coal in London exceeds 7,000,000 tons, of which he estimated 2,000,000 tons are used for gaswork and manufacturing, and 5,000,000 tons for domestic purposes. The average proportion of coke or solid matter, including ashes, he takes at 60 per cent., most of the remaining 40 per cent. going off by the chimneys. It is this 40 per cent. which Sir Francis Knowles proposes to utilise by converting or partially converting it into pyrogen gas—a mixture of 75 parts by weight of carbonic oxide with 25 parts of nitrogen. The carbonic acid gas evolved from limestone in process of burning is passed over fuel at a strong red heat, when it "will take up a second atom of carbon, and will be converted into carbonic oxide gas, a gas of intense heating power." This gas, mixed with one-third its weight of nitrogen, becomes the pyrogen gas which Sir Francis uses. In the production of the carbonic oxide he proposes to employ anthracite dust, which at present is comparatively worthless. The cost of the pyrogen gas does not exceed 2d. per 1000 cubic feet, containing 23 lbs. of pure carbon, and 100 ft. of it would raise to 1000° C. 48 lbs. of fire-clay balls placed in an ordinary grate, and heated by means of jets entering below it.

The details of distribution, he remarks, would depend on many and various complicated circumstances of locality, positions of streets, proximity to railway stations, &c., all of which would have to be considered and met by the constructing engineers. The assumed consumption of two millions of tons of coke and anthracite coal, instead of five millions of raw coal, involves no doubt a large economy of labour and capital; but it by no means measures the whole economy which so great a change would bring about. We have in this estimate, liberal though it is, supposed that the same number of fires are to be kept burning. This is by no means necessary. In practice, there is every reason to believe that, though

the means of lighting them would remain, they would rarely be used. The absence of all soot in the products of combustion and their high temperature would soon lead to their passing through the tubes of tubular boilers, by means of which warmth could be distributed to all the other apartments of the dwelling, even in lodging-houses, while well-contrived apparatus for cooking comprised in a small compass, and heated by jets of the gas only when required, would meet all the domestic requirements of the inmates in houses let out in lodgings, and with an immense aggregate saving on the present system.

The principal and direct economy of fuel which Sir Francis Knowles contends will result from the adoption of his system is scarcely greater than the indirect and secondary saving due to the power of making a single fire suffice for the whole of a dwelling-house, for by this application of the heat, cooled in the gaseous products of combustion, we should in effect utilise the whole of the heat which goes to waste up our chimneys, the quantity of which must be enormous, while the power of complete ventilation incidental to the diffusion of heat by means of water-pipes would let in the State to enforce ventilation everywhere under the necessary right to regulate the distribution and the cost of the heating gas. The other point regards the refining and conversion of cast-iron, the original destination of this gas. It will be found upon making the calculation that the lime produced will barely suffice to afford the flux required to smelt from the ore in the blast-furnace the cast-iron to be converted. In heating towns, although so direct and happy an outlet does not exist for disposing of the lime, yet it will be found that its superior quality and its cheapness of production on so large a scale are sure, as indicated, to secure it a market. It may be added, moreover, that there is every reason to anticipate one most important use of this powerful calorific agent—that it will render the lime light a cheap and practical reality.

IN THE MATTER OF THE BESSEMER STEEL AND ORDNANCE COMPANY (LIMITED), AND IN THE MATTER OF THE COMPANIES ACTS, 1862 AND 1867.

THE CREDITORS OF THE ABOVE COMPANY are required on or before the 31st day of December, 1874, to SEND their NAMES and ADDRESSES and the particulars of their DEBTS or CLAIMS, and the names and addresses of their Solicitors (if any), to Mr. CHARLES FITCH KEMP, at No. 8, Walbrook, in the City of London, one of the Official Liquidators of the said Company; and if so required by notice in writing from the said Official Liquidator, are, by their Solicitors, to COME IN and PROVE their said DEBTS or CLAIMS at the Chambers of the Vice-Chancellor of the County of Middlesex, at No. 3, Stone Buildings, Lincoln's Inn, in the County of Middlesex, at such time as shall be specified in such notice; or, in default thereof, they will be EXCLUDED from the BENEFIT of any DISTRIBUTION made before such debts are proved.

Friday, the 15th day of January, 1875, at Twelve o'clock at noon, at the said Chambers, is appointed for hearing and adjudicating upon the debts and claims.

ALFRED RAWLINSON, Chief Clerk.

NEWMAN, DALE, AND STRETTON, 75, Cornhill, E.C.

Dated this 4th day of November, 1874.

MINING IN AUSTRALIA.

THE UNDERSIGNED, having a large connection in the Mining Districts of New South Wales, Victoria, and Queensland, are PREPARED to ACT as SOLE AGENTS in the Australian Colonies for the SALE of NEW PATENTS and IMPROVEMENTS in MINING MACHINERY and APPLICATIONS.

W. C. BELLERIDGE AND CO.,
General Brokers and Commission Agents,
Squatter's Exchange, Sydney, New South Wales.
London Reference—Mr. E. H. BARLEE, Solicitor, 52, Old Broad-street, City.

MINING AGENT.

THE DIRECTORS OF THE COLORADO TERRIBLE LOPE MINING COMPANY (LIMITED) are PREPARED to RECEIVE APPLICATIONS for the SITUATION of AGENT at their SILVER-LEAD MINE, in COLORADO, U.S.A.

To be sent, with references, testimonials, &c., to the Secretary, at the office, No. 21, Great Winchester-street, E.C., London, on or before the 12th December next.

IRON MINE IN GALICIA, SPAIN.

WANTED, CONTRACTS TO SUPPLY SUPERIOR IRON ORE (75 per cent. peroxide = 55 per cent. metallic iron), or would SELL MINE, situated in the HARBOUR of VIVERO, on easy terms. Capacity, ten million tons.

Address, "J. S.," 39, Adelaide-road, London, N.W.

BORROWDALE PLUMBAGO AND LEAD MINES COMPANY.

WANTED (immediately), a THOROUGH PRACTICAL and EXPERIENCED MAN, to take the MANAGEMENT of the DRESSING DEPARTMENT at the above Mines. Must be able to lay out the dressing floors, erect machinery, and dial. Permanent engagement. House found. Application, stating wages required, and giving references, to be sent to—

WILLIAM DIXON, Manager.

WANTED, TEN TONS OF SECONDHAND 16 lbs. BRIDGE RAILS, LARGE WATER-WHEEL, and SAW BENCH. State price, delivered at Keswick Railway Station.

Borrowdale, near Keswick, November, 1874.

ASSAYER AND METALLURGIST.

WANTED, in Smelting Works, an ANALYTICAL CHEMIST. One with some experience in Smelting and Assaying Copper, Lead, Silver, Gold, &c., preferred. Apply by letter, stating full particulars, to "D. G. Y.," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

WANTED, a FOREMAN PITMAN, accustomed to SINKING UNDER PUMPS. None but competent men need apply. Address, "Box No. 5," Tyldesley, near Manchester.

TO MINING AGENTS.

WANTED, ACTIVE EXPERIENCED AGENTS, capable of UNDERTAKING the PRACTICAL MANAGEMENT of LEAD and COPPER MINES at HOME and ABROAD. Apply, by letter, with full particulars of age, experience, salary required, &c., to Mr. BEWICK, C.E., No. 4, Broad Sanctuary, London, S.W.

WANTED, a GOOD PORTABLE PUMPING AND WINDING ENGINE, NEW or SECONDHAND, about 20-horse power. State maker's name, how long working, where can be seen, and lowest price. Address, "T. 309," care of Henry Greenwood, Advertising Agent, Liverpool.

WANTED a GOOD SECOND-HAND 45 to 50 inch cylinder CORNISH PUMPING ENGINE, with TWO GOOD BOILERS. Must be in first-class condition. Particulars and price to be sent to Mr. J. KITTO, Llandiloes, Montgomeryshire.

PARTNER WANTED, in a BRICK, FIRE-BRICK, TILE, and SANITARY PIPE-WORKS.—To Gentlemen of Business Habits, having the command of from £2000 to £3000, this will be found a SAFE and PROFITABLE INVESTMENT. Full particulars on application to Mr. D. C. DAVIES, Oswestry.

TO CAPITALISTS.

ANY GENTLEMAN having £1000 to LAY OUT would be almost certain to REALISE a FORTUNE in a few years by co-operating with a gentleman of the highest respectability in affixing the necessary WATER POWER MACHINERY to a SILVER-LEAD MINE, which promises to be an unusually good dividend-paying one. Address, "S. L. M.," MINING JOURNAL Office, 26, Fleet-street, London, E.C.

AN ANALYTICAL CHEMIST DESIRES a RE-ENGAGEMENT. Is an Associate of the Royal School of Mines, London, and has had charge of the laboratory at a large ironworks. Address, "A. R. S. M.," 65, Barbican, E.C.

GLONINITE.

THE NEW, SAFEST, AND MOST POWERFUL EXPLOSIVE OF THE DAY, FOR SALE. Address, "Argus," care of Davies and Co., Advertising Agents, Finch-lane, Cornhill.

MALABAR GOLD WASHING COMPANY (LIMITED). Notice is hereby given, that the ORDINARY GENERAL MEETING of the Malabar Gold Washing Company (Limited) will be HELD at the offices of the company, No. 1, Winchester House, Old Broad-street, London, E.C., on THURSDAY, the 3rd December, 1874, at Two o'clock. The Transfer-books will be closed from the 23rd inst. to the 21st proximo.

By order, SYDNEY A. COBBETT, Secretary.

1, Winchester House, Old Broad-street, London, E.C., Nov. 28, 1874.

RUSSIA COPPER COMPANY (LIMITED). Notice is hereby given, that the FOURTH ORDINARY GENERAL MEETING of the Russia Copper Company (Limited) will be HELD at the Terminus Hotel, Cannon-street, London, on WEDNESDAY, the 9th day of December, 1874, at 10 o'clock precisely. The Transfer Books of the Company will be closed from the 25th day of November to the 10th day of December.

C. T. MOORE, Secretary.

2, Moorgate-street, London, E.C., Nov. 24th, 1874.

In the Court of the Vice-Warden of the Stannaries.

Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the PERRAN WHEEL VIRGIN MINING COMPANY.—The Registrar of this Court has appointed THURSDAY, the 10th day of December next, at Eleven o'clock in the forenoon, at the Registrar's Office, at Truro, TO SETTLE the LIST OF CONTRIBUTORIES of the above-named company, now made out and deposited at the said office.

FREDERICK MARSHALL, Registrar.

Dated Registrar's Office, Truro, the 24th day of November, 1874.

In the Court of the Vice-Warden of the Stannaries.

Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACT, 1862, and of the POLCREBO MINING COMPANY.—By direction of His Honor, the Vice-Warden, Notice is hereby given, that on Wednesday, the 9th day of December next, at the Registrar's Office, at Truro, in the County of Cornwall, at Eleven o'clock in the forenoon, this Court will PROCEED to MAKE a CALL of ONE POUND TEN SHILLINGS PER SHARE on all the contributors of the said company, settled on the List of Contributors as present members thereof.

All persons interested therein are entitled to attend at the time and place aforesaid to offer objections to such call.

JOHN HENRY HAMLEY, Official Liquidator.

Dated Stannaries Court Office, Truro, November 26th, 1874.

In the Court of the Vice-Warden of the Stannaries.

Stannaries of Cornwall.

IN the MATTER of the COMPANIES ACTS, 1862 and 1867, and of the GREAT NORTH CARADON SILVER-LEAD AND COPPER MINING COMPANY (LIMITED).—By the direction of His Honor the Vice-Warden, Notice is hereby given, that on Friday, the 11th day of December next, at Eleven o'clock in the forenoon, at the Registrar's Office, at Truro, in the County of Cornwall, this Court will PROCEED to MAKE a CALL of TWO SHILLINGS AND SIXPENCE PER SHARE on all the contributors of the said company, settled on the List of Contributors as present members.

All persons interested therein are entitled to attend at the time and place aforesaid to offer objections to such call.

JOHN HENRY HAMLEY, Official Liquidator.

Dated Stannaries Court Office, Truro, the 25th day of November, 1874.

VALUABLE IRON, TIN, AND COPPER MINES IN WEST CORNWALL FOR SALE.

MR. JOHN MATHEWS WILL SELL, BY AUCTION, at the Western Hotel, Penzance, on Thursday, the 11th day of December next, at Three o'clock in the afternoon, in One Lot, as a going concern, the WHOLE of the MACHINERY and MATERIALS, together with the SEVERAL MINING LEASES or SEITS of the TREBARVAH MINES, situate in the parish of Perranuthnoe, near Marazion.

The MACHINERY comprises the following, namely:—48½ in. cylinder, 7 ft. stroke PUMPING ENGINE, with 12 ton BOILER; 16 in. cylinder, 4 ft. stroke STEAM WHIM, with 8 ton BOILER; cage and wire-rope complete; shears and capstan, with wire-rope; 50 fms. 14 in. pitwork, and 15 fms. 7 in. in engine-shaft, with 10 fms. 12 in. pitwork in Richards' shaft, with 40 fms. flat-rods underground and 12 fms. 13 in. pumps at surface; skip-rod in Richards' shaft, with stands, shovels, and shaft tackle at surface, together with a variety of miscellaneous articles. There is also an excellent account-house, together with smiths' shop and carpenters' shop, as well as material, powder, and dressing houses, with extensive copper ore floors.

The whole of the machinery is in first-rate condition, and ready to be set to work at once.

The various levels from the adit to the 60 have been cleared, and 117 tons of copper ore, 1300 tons of white spathose iron ore, and 293 tons of tinstuff have been raised to surface and sold. There is a good lode of copper ore now standing above the 60, west of Richards' shaft, and copper may also be expected in the 50 by driving a few fathoms further west of engine-shaft. There are several other valuable lodes known to exist in the sett.

Any further information may be obtained from Messrs. BRANSON and SON, Solicitors, Sheffield; Mr. S. H. F. COX, St. Columb; or the Auctioneer; or at the offices of Mr. W. TRYTHALL, Solicitor, Penzance.

Dated 16th November, 1874.

LEAD MINE NEAR CARSPHAIN, STEWARTRY OF KIRKCUDBRIGHT.

TO BE LET, for such number of years as may be agreed upon, from and after Martinmas, 1874.

THE WOODHEAD LEAD MINE.

On the CRAIGENGILLAN ESTATE, situate in the parish of CARSPHAIN and Stewartry of KIRKCUDBRIGHT.

The mine was opened in 1855, has been wrought ever since, and has yielded a large quantity of lead of the finest quality.

The PLANT, MACHINERY, &c., can be had at a valuation.

JAMES McCALL, at the Mine, will show the underground workings, as also the plans and sections; and for further particulars application may be made to Mr. ALEXANDER McCUBBIN, Solicitor, Ayr; or to Mr. THOS. SMITH, Land Steward, Berberth Mains, Dalmellington, Ayrshire.

Ayr, 20th October, 1874.

TO CAPITALISTS.

FOR SALE, IN NEW SOUTH WALES, —

1340 ACRES TIN LANDS, —Lode and Stream.

2430 ACRES COPPER LANDS (portions freehold).

2112 ACRES IRON AND COAL.

2250 ACRES COAL (on sea coast).

4000 ACRES COAL (inland, on railway line).

201 ACRES KERORENE SHALE.

200 ACRES PLUMBAGO.

105 ACRES FREEHOLD GOLD DEPOSIT (Brown's Creek).

The above properties are all first-class, and on or near railway lines or water carriage, and are the very "pick" of their respective districts (being some of the first selections made).

Liberal terms, either as to purchase or working on royalty, will be given to parties able to carry out arrangements.

Apply to the owner, —

CHARLES W. WEEKES, Circular Quay, Sydney, N.S.W.

FOR SALE, BY PRIVATE BARGAIN, EXTENSIVE RED HEMATITE IRON ORES MINES, near ST. AUSTELL, CORNWALL, within three miles of good shipping ports, contiguous to the celebrated Wheal Ruby, and extending about 1½ mile along the course of three proved lodes. The lodes have still to run from 20 to 40 years. The lodes are well opened up, and are yielding remarkably fine ore, requiring but little further expenditure to produce a very large and permanent output of ore. These valuable mines are well suited for producers of best hematite iron or steel pigs.

Applications to view, &c., to be addressed, "Hematite," 4, Bishopsgate-street-within, London.

FOR SALE: —

FOUR SPLENDID DOUBLE-FLUE BOILERS, 30 ft. long, 7 ft. diameter, with all fittings, complete. Three can be seen working at 70 lbs. pressure (great bargains); one can be seen at Washington.

ONE MULTITUBULAR BOILER, 28 ft. by 7 ft., will work at 60 lbs.—all the fittings.

ONE PAIR of new 12 in. cylinder WINDING ENGINES.

ONE PAIR ditto, 16½ inch cylinders—very cheap.

TWO 9 in. cylinder PORTABLE ENGINES.

TWO 18 in. cylinder HORIZONTAL ENGINES, very strong.

ONE 18 in. ditto, for hauling.

TWO 4 in. RAM DONKEY PUMPS.

TWO 7½ in. SCREW CUTTING LATHES.

TWO 9½ in. ditto.

ONE 25 in. and ONE 30 in. cylinder HORIZONTAL ENGINES.

ONE WHEEL, 16 ft. diameter, 6½ tons weight.

ONE SINGLE-FLUE BOILER, 18 ft. by 5 ft., all fittings complete.

ONE 8 in. cylinder TANK LOCOMOTIVE ENGINE, 4 ft. 8½ in. gauge.

ONE 11 in. ditto.

ONE TUBULAR BOILER, 24 ft. high 7 ft. diameter—all Low Moor plates.

TWO GALLOWAY BOILERS, 28 ft. by 7 ft.—all the fittings.

ONE FOUNDRY JIB CRANE, 24 ft. radius, very strong.

TWO very large direct-acting PUMPING ENGINES, cylinders 106 in. diameter, stroke 84½ ft.—will be sold separately or together. Lithograph and specification on application. Very cheap.

Apply to Mr. JOHN BURLINSON, 32, Argyle-square, Sunderland.

FOR SALE, a STEAM WINCH, on bogie, double 8-inch oscillating cylinders, almost new.

Another STEAM WINCH, with double 7-inch cylinders.

A FLY-WHEEL, 19½ ft. diameter, weighing 12 tons.

The whole of the above is in splendid condition, and ready for immediate delivery. They are SECOND-HAND, and will be SOLD CHEAP.

Apply to JOHN HUGHES and Co., Padeswood, near Mold.

FOR SALE, ONE 60 in. cylinder PUMPING ENGINE, 9 ft. stroke, equal beam, with ONE BOILER, 10 tons; ONE 36 in. cylinder PUMPING ENGINE, 9 ft. stroke in cylinder, by 8 ft. in shaft, with ONE BOILER, 10 tons.

Apply to Mr. JOHN WATSON, 9, Gracechurch-street, London, E.C.

FOR SALE, CORNISH ROTARY ENGINE, 38 in., two fly-wheels, about 20 tons; TWO BOILERS, 20 tons; THREE STAMPS AXLES, five cuns to the round, two sets complete, with lifters, &c., for stamping.

Apply to Mr. HOWARD, Auctioneer, St. Columb, Cornwall.

CORNISH PUMPING ENGINES.

FOR SALE, a very good second-hand 50 in. cylinder PUMPING ENGINE, 10 ft. stroke, with TWO CORNISH BOILERS and FITTINGS, 11 tons each; condensing work equal to new.

Also TWO very good 36 in. cylinder PUMPING ENGINES, with or without BOILERS.

Apply to F. W. MICHELL and Co., East Carn Brea, Redruth, Cornwall.

COAL MINES REGULATION ACT, 1872.

EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY.

DISTRICT UNDER THE CHARGE OF F. N. WARDELL, Esq.,
H.M. INSPECTOR OF MINES.

NOTICE IS HEREBY GIVEN, that an EXAMINATION for MANAGERS' CERTIFICATES OF COMPETENCY, under the above-named Act, will be HELD on the 32nd day of December next, and CANDIDATES INTENDING TO PRESENT THEMSELVES AT SUCH EXAMINATION must, on or before the 1st day of December, notify such intention to the Secretary of the Board of the above-mentioned District, from whom all information as to particulars can be obtained.

By order of the Board,
JOHN R. JEFFERY, Secretary,
5, Piccadilly, Bradford.

COAL MINES REGULATION ACT, 1872.

EXAMINATION FOR MANAGERS' CERTIFICATES OF COMPETENCY.

DISTRICT UNDER THE CHARGE OF THOMAS BELL, Esq.,
H.M. INSPECTOR OF MINES.

NOTICE IS HEREBY GIVEN, that an EXAMINATION for MANAGERS' CERTIFICATES OF COMPETENCY, under the above-named Act, will be HELD on the 17th day of December, 1874, and CANDIDATES INTENDING TO PRESENT THEMSELVES AT SUCH EXAMINATION must, on or before the 14th day of December, notify such intention to the Secretary of the Board of the above-mentioned District, from whom all information as to particulars can be obtained.

By order of the Board,
MASKELL WM. PEACE, Secretary,
King-street, Wigan.

THE STEPHEN ROE DIFFUSIVE DAYLIGHT REFLECTOR COMPANY (LIMITED).

This company is now fully registered, and in full operation, doing at present a remunerative business, and capable of great extension.

BANKERS,
Messrs. CUNLIFFE, BROOKS, and CO., King-street, Manchester.

SOLICITORS,
Messrs. SUTTON and ELLIOTT, 17, Brown-street, Manchester.

AUDITORS,
Messrs. NICHOLSON and MILNE, King-street, Manchester.

Prospectuses and Forms of Application may be had, and shares taken up, by applying to the Bankers, Solicitors, Auditors, or to the Secretary, Mr. PHILIP GRANT, at the registered office of the company, 60, Market-street, Manchester. A limited number of shares only remain to be taken up for the present.

BEST AND CHEAPEST LUBRICATING OIL,

RECOMMENDED BY

MANY OF THE LARGEST OWNERS OF MACHINERY IN ENGLAND.

Apply to—
ALEXANDER SPARROW AND CO., LIVERPOOL.

N.B.—Civil Engineers and Commission Agents wanted as Agents.

NEW INN FOR THE SHELVE MINES.

WILLIAM DOODY, late butler to R. JASPER MORE, Esq., begs to inform the Directors and Shareholders in the Shropshire Lead Mines, that he has OPENED the "MORE ARMS," at SHELVE, near MINSTERLEY, SHROPSHIRE, where he is prepared to PROVIDE BEDS and a SITTING ROOM for Gentlemen visiting the district, as well as DINNERS, LUNCHEONS, &c., for parties. He solicits the patronage of Gentlemen visiting the Mines from London, and elsewhere.

SWEDISH AND SCOTCH PIT PROPS, MINING TIMBER, LARCH AND FIR CREOSOTED SLEEPERS,

LARCH AND FIR TRAMS, DEALS, &c., of all kinds and dimensions, of best quality and lowest prices—FOR SALE.

Apply to—
THOMAS ATKINSON,
1, SPICER LANE, QUAYSIDE, NEWCASTLE.

WEST SWANSEA COLLIERY COMPANY (LIMITED).

FOR SALE, TWENTY-FIVE £5 SHARES (£4 10s. paid).

KILLAN AND THREE CROSSES COLLIERY COMPANY (LIMITED).

FOR SALE, TWENTY-FIVE £5 SHARES (£3 10s. paid).

Secretary—F. WARWICK, 25, Bucklersbury, London.

No reasonable offer refused.
Address, F. G. FLINX, Handsworth, Birmingham.

AN OFFER WANTED for the PERRAN WHEEL VYVYAN MINE and MATERIALS, consisting of PITWORK, WHIM, SMITHS' TOOLS, TIMBER, and other requisites necessary for carrying on mining operations. A considerable sum of money has been expended in testing the various lodes, and the indications are such as to warrant the belief that a further small outlay will bring the mine into a profitable state.

The property is situated in the parish of Perranzabuloe, near Mithian, Cornwall, and can be inspected by applying to the undermentioned, of whom all particulars can be obtained, as well as favourable reports from some of the most eminent practical mining authorities in Cornwall.

Tenders to be forwarded on or before December 10 next.

368, Euston-road, London. ALFRED LEETE, Liquidator.

TO BE SOLD.

BEAM ENGINE, 16½ inch cylinder, high pressure or condensing in good working trim, with foundation stones, complete.

PORTABLE ENGINES, for SINKING, MINING, or GENERAL PURPOSES, from 10 to 30-horse power, IN STOCK, or in PROGRESS OF CONSTRUCTION.

Full particulars on application to—
BADGER AND SON,
ENGINEERS, ROTHERHAM.

PIT SINKING AND WINDING COAL.

FOR SALE, and ready for immediate delivery, a 14, 18, 25, and 35 horse power PORTABLE STEAM ENGINES, with link motion, reversing gear, winding drum, gear, &c., complete.

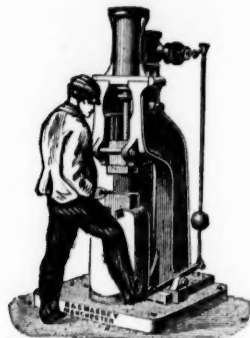
Also, a 9 and 15 horse power VERTICAL ENGINES, with link motion reversing gear, suitable for mining operations.

FOR SALE, —An excellent PORTABLE STEAM ENGINE; and a 7-ft. PAN MORTAR MILL. Apply

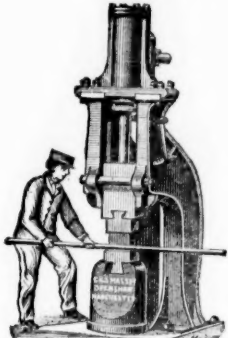
B. & S. MASSEY, OPENSHAW, MANCHESTER.

PRIZE MEDALS AWARDED:—Paris, 1867 Havre, 1868; Highland Society, 1870; Liverpool, 1871; Moscow, 1872; Vienna, 1873.

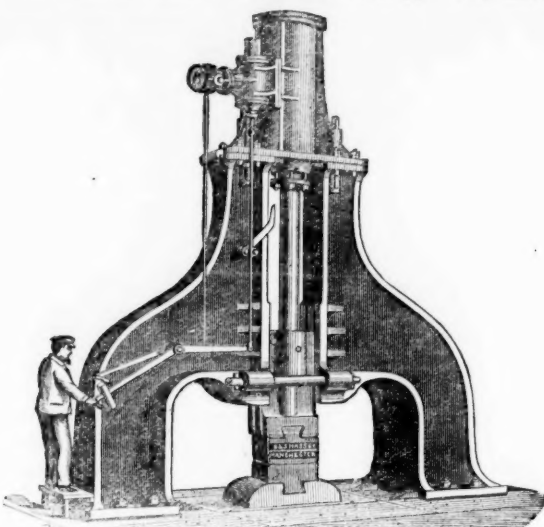
Patentees and Makers of Double and Single-acting STEAM HAMMERS of all sizes, from $\frac{1}{2}$ cwt. to 20 tons, with self-acting or hand motions, in either case giving a perfectly DEAD BLOW, while the former may be worked by hand when desired. Large Hammers, with Improved Framing, in Cast or Wrought Iron. Small Hammers, working up to 500 blows per minute, in some cases being worked by the Foot of the Smith, and not requiring any separate Driver.



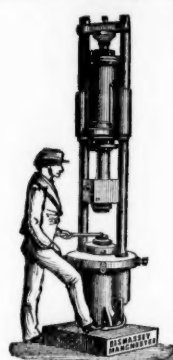
Small Hammer with Foot Motion.



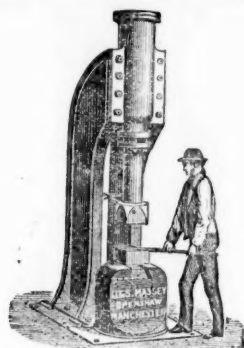
General Smithy Hammer.



Steam Hammer for Heavy Forging.



Special Steam Stamp.

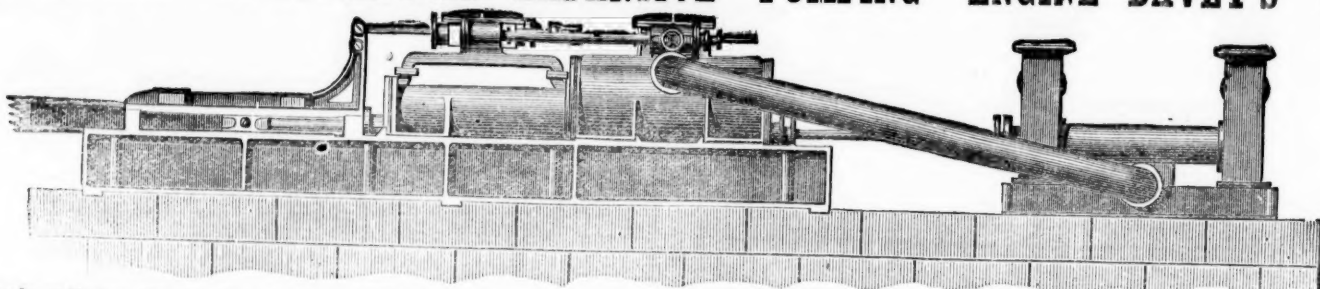


General Smithy Hammer.

From 60 to 100 Steam Hammers and Steam Stamps may usually be seen in construction at the Works.

SPECIAL STEAM STAMPS, of great importance for Forging, Stamping, Punching, Bolt-making, Bending, &c. STEAM HAMMERS for Engineers, Machinists, Ship-builders, Steel Tilters, Millwrights, Copper-smiths, Railway Carriage and Wagon Builders, Colliery Proprietors, Ship Smiths, Bolt Makers, Cutlers, File Makers, Spindle and Flyer Makers, Spade Makers, Locomotive and other Wheel Makers, &c.; also for Use in Repairing Smithies of Mills and Works of all kinds; for straightening Bars, bending Cranks, breaking Pig-iron, &c.

HATHORN, DAVIS, CAMPBELL, AND DAVEY, MAKERS OF THE COMPOUND DIFFERENTIAL EXPANSIVE PUMPING ENGINE—DAVEY'S PATENT.



Also, Single-cylinder Condensing Differential PUMPING ENGINES; Steam Pumps, of various kinds; Hydraulic Pumps, for dip workings; Winding Engines; Compound Rotative Engines; the Separate Condenser; High and Low Pressure Steam Boilers, &c.

SUN FOUNDRY, LEEDS.

FURTHER PARTICULARS ON APPLICATION.

BARROWS & STEWART, ENGINEERS, BANBURY, MANUFACTURE

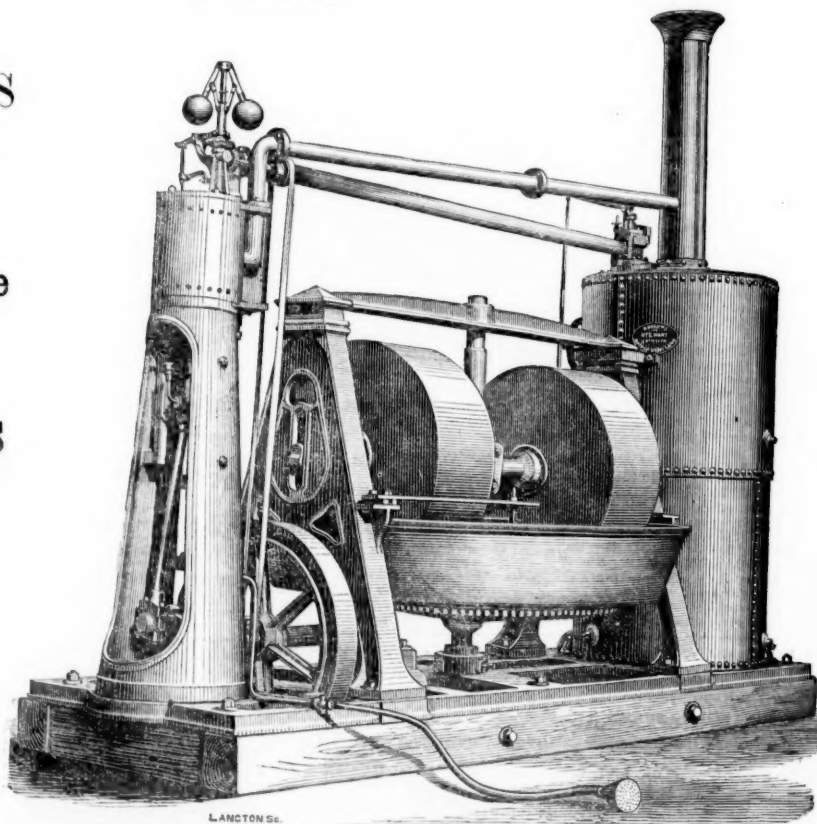
PORTABLE Steam Engines

With Gear for Winding, Pumping, and Ore Crushing.

ALSO,

COMBINED MILLS

and ENGINES, with or without BOILERS, for Grinding Cinders, Sand, Mortar, &c.



LANCOTON CO.

VARLEY & YEADON, COLLIERY & BRICK-MAKING ENGINEERS,

Manufacturers of WINDING, HAULING, and PUMPING ENGINES, Boilers and Fittings, Steam Piping, Donkey Pumps, Lift Pumps, Perforated Clay and Mortar Mills, Brick Presses, Pug Mills, Round and Flat Rope, Pit-head Pulleys, Wrought-iron Head Gear, ROOFS and GIRDERS, Kibbles, ONE, TWO, and THREE-DECK CAGES, COAL TIPPING and SCREENING APPARATUS, VENTILATING FAN, IS, TUBBING, GIRDERS, PILLARS, POINT PLATES. Steam or other Cranes, Crabs and Windlasses, Machines for Cutting Stone, &c.

CROWN POINT FOUNDRY, LEEDS.

Estimates furnished on application.

DUNCANS' LUBRICATING OILS

WARRANTED FREE FROM GUMMINESS.

PALE INSTAR SPERM, OLIVE, and LARD, from 2s. 9d. 9d. "DON ECONOMIC" LUBRICATING OIL, from 2s. 3d. to d. per gallon, according to quantity.

Mr. ALFRED HEWLETT, Wigan Coal and Iron Company, says—"I have used the Don Oil for nearly two years, and find it to answer exceedingly well for purposes of lubrication."

Consignees put on most favourable terms.

DUNCAN BROTHERS, SOLE MANUFACTURERS, 2, BLOOMFIELD STREET, LONDON, E.C.

THOMAS TURTON AND SONS,

MANUFACTURERS OF



CAST STEEL for PUNCHES, TAPS, and DIES, TURNING TOOLS, CHISELS, &c.

CAST STEEL PISTON RODS, CRANK PINS, CONNECTING RODS, STRAIGHT and CRANK

AXLES, SHAFTS and

FORGINGS of EVERY DESCRIPTION.

DOUBLE SHEAR STEEL, FILE MARKED

BLISTER STEEL, T. TURTON

SPRING STEEL, EDGE TOOLS MARKED

GERMAN STEEL, WM. GREAVES & SON

Locomotive Engine, Railway Carriage and Wagon Springs and Buffers.

SHEAF WORKS and SPRING WORKS, SHEFFIELD.

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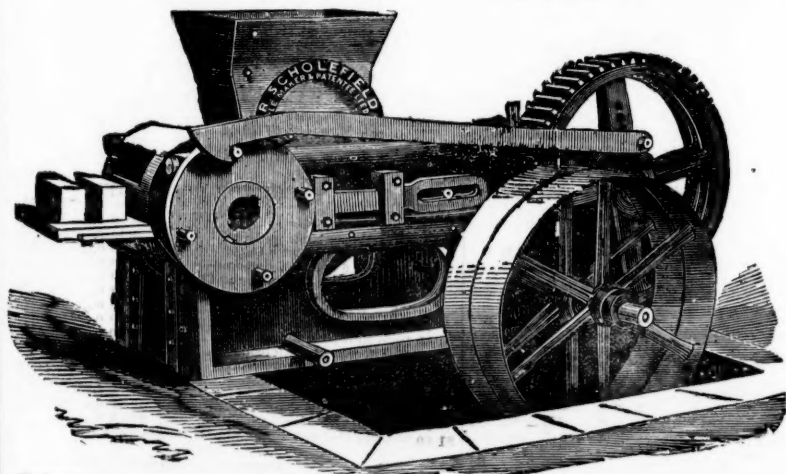
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1 boy greasing, 1s. 6d. per day	0 1 6
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Total cost of making 10,000 pressed bricks £1 5 0, or 2s. 6d. per 1000.

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ton-in-Teesdale, by Darlington, writing on the 27th September, 1873, says:—"After
a full season's experience of the very complete Dressing Machine erected by you
at our Colliery Mines, we are fully satisfied with our decision to adopt your patents
in preference to all others. The machinery does its work as well as we can desire,
and better than we anticipated. We are now getting through 70 tons of orestuff
per day, of rich quality. Without your machinery we should have been at a stand
still, for we cannot get hands to supply our wants elsewhere. It saves fully one-
half of the old wages, and vastly more on the wages we now give, and the saving
in ore is not much short of 10 per cent. You can quote from this letter as you
think proper."

Mr. COLTAS DODSWORTH, of Haydon Bridge, writes, on the 15th
January, 1874:—"I have just returned from the Stonecroft and Greyside Mines,
where I have seen your 'Patent Ore Dressing Machinery' at work, with which I
must say, I was highly pleased. It is decidedly the best machinery I have ever
seen for the purpose, the results being as near perfection as possible, and I am quite
sure its use in this case will be a very great saving to the company. No large
mining establishment should be without your machinery, especially when labour
is difficult to procure—a mere fraction of the hands being only required as against
the old system, and the work altogether much better done, and a great saving of
ore effected. I have heard it said that your machinery is better adapted for poor
than for rich ores, but from what I have seen to-day I am quite confident it will
do for any kind of ores. I beg not only to congratulate, but also to compliment,
you on the great success of your 'Patent Ore Dressing Machinery.' You may use
this letter as you think proper."

Mr. MONTAGUE BRALE, Managing Director of the Cagliari Mining
Company (Limited), says, on May 15th, 1873:—"I have much pleasure in speak-
ing of the great efficiency of your 'Patent Dressing Machinery,' as erected by you
at our mines at Rosas, in the Island of Sardinia. You will remember it has always
been considered impossible to dress, or rather separate, the minerals our ores con-
tain by machinery, but our captain assures me he gets a constant return of 76 per
cent. of lead with the greatest ease, and I know by the returns we are realising the
best market price. I consider this company is much indebted to you for the suc-
cess you have achieved at so small cost. It may interest you to know, from my
experience in several of the British possessions, including the whole of the Austra-
lian Colonies, that my opinion is I have never seen any dressing machinery that
can efficiently, and at so small a cost, dress, and separate metallic ores, however
close the mechanical mixture may be, as yours. You can use this letter in any
way you like."

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Shares.	Mines.	Paid.	Last Pr.	Clos. Pr.	Total divs.	Per share.	Last paid		
1500	Alderley Edge, c, Cheshire	10 0 0	—	—	12 1 8	0 0 0	Apr. 1874		
20000	All-y-Crib, t, Talybont	2 0 0	—	—	0 0 0	0 0 0	Feb. 1873		
30000	Bampfylde, c, t, Devon	1 0 0	—	—	0 0 0	0 0 0	June 1873		
5000	Blanc Caelan, c, t, Cardigan	1 0 0	—	—	0 0 0	0 0 0	—		
200	Botalack, t, c, St. Just	116 5 0	50	47 48	619 15 0	5 0 0	Aug. 1872		
10000	Brookwood, c, t, Cardigan	1 7 6	—	—	2 2 0	0 0 0	Jan. 1872		
4000	Brookwood, c, t, Cardigan	1 16 0	5 1/2	5 1/2	3 2 6	0 0 0	Nov. 1872		
3248	Cargill, s, t, Newlyn	5 4 5	1 1/2	1 1/2	4 16 3	0 12 6	Oct. 1872		
6400	Cashwell, t, Cumberland	2 10 0	—	—	1 6 0	0 2 6	Aug. 1873		
1000	Carr Breca, c, t, Illogan	35 0 0	57 1/2	52 1/2	308 0 0	1 0 0	Jan. 1874		
6000	Cath. & Jane, t, Penryn	5 0 0	—	—	0 7 0	0 7 0	June 1873		
2450	Cock's Kitchen, t, Illogan	20 4 9	10	8 0	11 17 0	0 1 0	Jan. 1873		
10240	Deon Gt. Conole, c, Tavistock	1 0 0	—	—	16 10 0	0 12 0	May 1872		
4296	Dolroath, c, t, Camborne	10 14 10	50	40 1/2	105 4 0	0 10 0	Oct. 1874		
6500	Drake Walls, t, c, Calstock	5 0 0	—	—	0 2 0	0 2 0	July 1874		
10000	East Baleswidan, t, Sancerre	1 0 0	—	—	0 2 11 0	0 6 0	Feb. 1874		
6144	East Caradon, c, St. Cleer	2 14 6	1 1/2	1 1/2	14 19 0	0 2 0	Oct. 1872		
300	East Darren, t, Cardiganshire	32 0 0	—	—	224 10 0	1 0 0	Oct. 1874		
6400	East Pool, t, c, Illogan	0 9 9	9	8 9	13 11 3	0 2 6	May 1873		
1906	East Wheel Lovell, t, Wendron	5 19 0	11	10 11	20 7 6	0 7 0	Oct. 1874		
5000	Exmouth, s, t, Christow	0 7 6	—	—	0 1 0	0 1 0	May 1873		
2800	Foxdale, t, Isle of Man	25 0 0	—	—	80 15 0	0 10 0	Sept. 1872		
40000	Glasgow Carr, s, t, 30,000 £1 p., 10,000 15s. p.	15 1/2	13 1/2	13 1/2	17 3 0	0 10 0	Oct. 1874		
15000	Great Laxey, t, Isle of Man	4 0 0	10 1/2	10 1/2	17 3 0	0 10 0	Oct. 1874		
25000	Great West Van, t, Cardigan	2 0 0	—	—	0 2 0	0 2 0	Aug. 1874		
4000	Green Hurth, t, Durham	0 6 0	5 1/2	5 1/2	12 0 0	0 4 0	Oct. 1874		
20000	Grognwin, t, Cardigan	2 0 0	—	—	0 8 0	0 8 0	July 1874		
10240	Gunnislake (Clitters), t, c	5 5 0	1 1/2	1 1/2	0 1 0	0 1 0	Nov. 1874		
1024	Herodfoot, t, near Liskeard	8 10 0	4	3 1/2	82 5 0	0 15 0	Oct. 1872		
18000	Hington Downs, c, Calstock	2 5 0	1 1/2	1 1/2	4 3 0	0 8 0	Dec. 1872		
25000	Killalee, t, Tipperary	1 0 0	—	—	0 3 11 3	0 6 0	Mar. 1873		
400	Lisburne, t, Cardiganshire	18 15 0	—	—	564 10 0	1 0 0	July 1874		
6120	Lovell, t, Wendron	0 10 0	—	—	0 7 0	0 7 0	Jan. 1874		
11000	Lowther Valley, t, Cardigan	3 0 0	3 1/2	3 1/2	0 3 7 0	0 3 7 0	Jan. 1874		
6000	Miner Mining Co., t, Wrexham	6 0 0	20	15 20	63 15 2	0 2 0	Nov. 1874		
20000	Mining Co. of Ireland, c, t, l	7 0 0	—	—	0 8 0	0 8 0	July 1872		
12000	North Hendre, t, Wales	2 10 0	—	—	0 17 6	0 2 6	Oct. 1874		
2000	North Levant, t, c, St. Just	12 2 0	5	4 5	4 13 0	0 12 0	Sept. 1873		
7000	Old Treburt, s, t, ordinary shares	1 0 0	3 1/2	3 1/2	0 0 9	0 0 9	Feb. 1874		
9000	Old Treburt, s, t, 10 p. et. pref.	0 10 0	3 1/2	3 1/2	0 0 10 1/2	0 10 1/2	Feb. 1874		
6094	Pedra-an-drea, t, Redruth	9 2 0	—	—	0 5 0	0 5 0	Nov. 1871		
5000	Penhall, t, St. Agnes	3 0 0	1 1/2	1 1/2	3 7 0	0 2 0	Oct. 1874		
50000	Penrith, t, c, Gwynedd	2 0 0	—	—	0 2 0	0 2 0	Nov. 1874		
6000	Phoenix, t, c, Linkinhorne	4 13 4	4 1/2	4 1/2	39 19 0	0 4 0	Nov. 1872		
1772	Polter, t, St. Agnes	15 0 0	—	—	1 12 6	0 5 0	Mar. 1872		
18000	Prince Patrick, s, t, Holywell	1 0 0	3 1/2	3 1/2	104 12 6	0 10 0	Sept. 1872		
1120	Providence, t, Lelant	16 16 7	0	4 1/2	0 2 0	0 2 0	Sept. 1872		
2000	Queens, s, t, Holywell	2 0 0	—	—	0 2 0	0 2 0	Sept. 1874		
12000	Roman Gravel, t, Salop	7 10 0	14	13 13 1/2	4 2 0	0 8 0	Aug. 1874		
10000	Rhett, c, t, St. Austell	1 0 0	—	—	0 1 0	0 1 0	Oct. 1872		
612	South Caradon, c, St. Cleer	1 5 0	110	120 130	717 0 0	0 2 0	Oct. 1874		
5000	South Carr Breca, c, t, Illogan	1 17 6	2 1/2	1 1/2	0 10 0	0 2 6	July 1872		
6000	South Darren, t, Cardigan	3 6 0	—	—	1 1 6	0 1 6	Nov. 1870		
10000	St. Pr. Patrick, s, t, 8000 sh. issued	1 0 0	2 1/2	2 1/2	0 2 0	0 2 0	Oct. 1874		
8771	St. Just Amalgamated, t	3 10 0	—	—	0 9 0	0 4 0	Nov. 1871		
12000	Tankerville, t, Salop	6 0 0	7 1/2	6 1/2	3 8 0	0 6 0	Feb. 1873		
6000	Tieroff, t, c, Pool, Illogan	9 0 0	31	20 30 1/2	47 13 6	0 5 0	Nov. 1874		
15000	Trevel, t, Bodmin	7 0 0	—	—	0 11 6	0 2 0	July 1873		
4000	Trumpet Consols, t, Helston	7 0 0	1 1/2	1 1/2	9 11 0	0 10 0	Nov. 1874		
15000	Van, t, Llandidloes	4 6 0	23	21 23	13 9 6	0 10 0	Oct. 1874		
3000	W. Chiverton, t, Penzance	10 10 0	2 1/2	2 1/2	62 10 0	0 5 0	June 1873		
512	West Tolgus, c, Redruth	98 0 0	77 1/2	72 1/2	2 5 0	0 5 0	Oct. 1874		
2048	West Wheel Frances, t, Illogan	27 3 9	10	8 1/2	3 12 6	0 5 0	Oct. 1872		
512	Wheel Basset, c, Illogan	6 2 6	22 1/2	20 22 1/2	638 10 0	1 10 0	Aug. 1872		
4295	Wheel Kitty, t, St. Agnes	5 4 6	5 1/2	5 1/2	11 17 0	0 2 6	Sept. 1874		
600	Wheel Margaret, t, Uny Lelant	15 16 7	—	—	82 2 3	0 10 0	May 1872		
1000	Wheel Mary, t, St. Austell	9 0 0	—	—	0 1 0	0 1 0	Jan. 1873		
80	Wheel Ock, t, St. Just	76 5 0	95	90 95	622 10 0	0 4 0	Aug. 1873		
12000	Wheel Russell, c, Tavistock	1 0 0	—	—	0 3 0	0 3 0	Nov. 1874		
10000	Wheel Whistler, t, c, Warleggan	1 0 0	—	—	0 1 6	0 1 6	May 1873		
25000	Wicklow, c, s, t, Wicklow	2 10 0	—	—	62 9 0	0 2 6	Mar. 1872		

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85500	Alamillos, t, Spain	2 0 0	—	—	1 5 9	0 2 0	Sept. 1874		
30000	Alameda y Tinto Consol.	1 0 0	—	—	0 4 3	0 1 0	May 1873		
20000	Australian, c, South Australia	7 7 6	1 1/2	1 1/2	0 11 6	0 2 0	July 1873		
10000	Battle Mountain, c, (6240 part pd.)	5 0 0	—	—	0 10 0	0 10 0	Nov. 1872		
15000	Birdseye Creek, c, California	4 0 0	2 1/2	2 1/2	0 14 0	0 2 6	July 1874		
6000	Burns, t, Germany	10 0 0	—	—	0 17 4	0 8 0	Oct. 1872		
12220	Burra Burra, c, S. Australia	5 0 0	—	—	56 0 0	0 10 0	Oct. 1872		
20000	Cape Copper Mining, t, S. Africa	7 0 0	30 1/2	29 1/2	17 15 0	1 0 0	Sept. 1874		
4000	Cedar Creek, c, California	5 0 0	1 1/2	1 1/2	0 5 0	0 2 6	July 1873		
30000	Central American Association	0 16 6	—	—	0 6 0	0 1 0	July 1869		
15000	Chicago, t, Utah	10 0 0	—	—	0 16 0	0 4 0	Sept. 1873		
21000	Colorado Terrible, c, Colorado	5 0 0	4 1/2	4 1/2	0 9 6	0 1 6	July 1874		
7612	Don Pedro North del Rey	0 16 0	—	—	2 5 9	0 2 0	Mar. 1872		
33500	Eberhardt and Aurora, s, Nevada	10 0 0	5 1/2	5 1/2	1 0 0	1 0 0	July 1871		
2852	Eldorado, g, Nova Scotia	10 0 0	—	—	2 5 0	0 15 0	June 1873		
60000	Emma, g, s, Utah (25,000 fully pd.)	20 0 0	1 1/2	1 1/2	3 12 0	0 6 0	Dec. 1872		
70000	English and Australian, c, S. Aust.	2 10 0	2	1 1/2	2 7 3	0 2 6	Mar. 1873		
15000	Ferguson, c, California	2 0 0	—	—	0 3 0	0 3 0	April 1872		
6000	Flagstaff, s, Utah	10 0 0	1 1/2	1 1/2	4 2 0	0 5 0	July 1873		
25000	Fortuna, t, Spain	2 0 0	4 1/2	4 1/2	4 6 10	0 2 6	Sept. 1874		
80000	Gold Run, t, Calif.	1 0 0	—	—	0 2 4	0 4 0	Oct. 1872		
60000	Kapadia Mining Co., Australia	1 3 0	—	—	0 14 2	0 2 0	July 1873		
20000	Last Chance, s, Utah	1 0 0	—	—	0 14 0	0 2 0	July 1873		
15000	Linares, t, Spain	3 0 0	3 1/2	3 1/2	14 12 0	0 3 4	Sept. 1874		
7837	Lusitania, Portugal (25 shares)	3 10 0	1 1/2	1 1/2	11 6 0	0 1 6	Mar. 1874		
15000	Mammoth Copperopolis of Utah, c, s	10 0 0	—	—	0 5 0	0 5 0	Dec. 1872		
5000	Mountain Chief, s, Utah	10 0 0	—	—	0 4 0	0 4 0	Jan. 1873		
18000	Ponting Mining & Ironworks, c, t	30 0 0	—	—	6 0 0	0 3 0	July 1873		
10000	Prattland, s, France	20 0 0	21	19 21	16 8 0	0 19 0	June 1874		
100000	Port Phillip, c, Clunes	1 0 0	—	—	1 8 0	0 1 0	Jan. 1872		
54000	Richmond Consols, s, Nevada	5 0 0	7 1/2	6 1/2	1 16 6	0 5 0	July 1874		
120000	Sierra Australis Mining Co., t	1 0 0	1 1/2	1 1/2	1 8 0	0 2 0	Dec. 1873		
112500	Sierra Buttes, c, California	2 0 0	1 1/2	1 1/2	0 14 2	0 2 0	Nov. 1873		
60000	South Aurora, s, Nevada	10 0 0	—	—	2 18 0	0 6 0	May 1873		
15000	Sweetland Creek, c, California	4 0 0	3 1/2	3 1/2	0 11 6	0 2 6	May 1874		
20000	Tollina, g, s, (6000 sh. are £5 p. d.)	4 0 0	3 1/2	3 1/2	54 0 0	0 20 0	Dec. 1873		
500	Westphalian, s, c, Prussia	20 0 0	—	—	1 13 4	0 10 0	Oct. 1874		
15000	Western Andes, s, t, (New Granada)	5 0 0	5 1/2	5 1/2					

NON-DIVIDEND FOREIGN MINES.

Shares.	Mines.	Paid.	Last Pr.	Clos. Pr.	Last Call.
20000	Anglo-Australian, g, Victoria*	2 10 0	—	—	Sept. 1872
20000	Australian United, g, Victoria*†	2 10 0	—	1½ 1½	Fully pd.
3000	Bellavista, s, Peru* (£10 shares)	5 0 0	—	—	Fully pd.
30000	Blue Tent, <i>Ag.</i> , California	5 0 0	—	5½	Fully pd.
60000	Braganza, g, Brazil†	0 15 0	—	—	Oct. 1870
12000	Camp Floyd, s, Utah*	10 0 0	—	—	Fully pd.
25000	Cesena Sulphur Company, Romanga, Italy*	10 0 0	—	—	Fully pd.
60152	Chontales, <i>g, s</i> , Nicaragua*† (and 12,542 of £1 15s.)	2 0 0	—	¾ ¾	Fully pd.
6000	Clifton, s, Colorado*	5 0 0	—	—	Feb. 1873
10000	Crescent, <i>g</i> , Plumas County, California*	10 0 0	—	—	Fully pd.
100000	Culaba, <i>g</i> , Minas Geraes, Brazil†	0 17 6	—	—	June 1872
10000	Douglas, s, Georgetown, Col.	5 0 0	—	—	Fully pd.
80000	Excelsior Hydraulic Gold Washing Co., California*	6 0 0	—	—	Dec. 1871
60000	Exchequer, <i>g, s</i> , California*	1 0 0	—	—	Fully pd.
65000	Frontino and Bolivia, <i>g</i> , New Granada*†	2 0 0	—	¾ ¾	Fully pd.
50000	General Brazilian, <i>g</i>	1 0 0	—	—	Fully pd.
30000	Goetzl Tunnel Co., Georgetown, Col.	7 0 0	—	—	Fully pd.
40000	Holcombe Valley, <i>g</i> , California	1 0 0	—	1½	July 1878
6000	Hornachos, * s, (£10 shares)	9 0 0	—	—	Jan. 1874
20000	Imperial Brazilian Collieries, Brazil*	5 0 0	—	—	Fully pd.
20000	Independence, <i>g</i> , California*	5 0 0	3	1½ 1½	Fully pd.
2000	I. X. L., <i>g, s</i> , California*	5 0 0	—	—	Fully pd.
40000	Javali, <i>g</i> , Nicaragua*	5 0 0	—	¾ ¾	Fully pd.
12000	Langeston, <i>1/2, 2</i> , Viscaya, Spain (10 shares)	1 12 6	—	—	Sept. 1874
50000	London and California, <i>g</i> *†	2 0 0	—	¾ ¾	Fully pd.
75000	Malabar, <i>g</i> , Colombia* (65000 issued)	1 0 0	—	¾ ¾	Fully pd.
4000	Malaga, <i>1</i> , Spain*	10 0 0	—	—	Fully pd.
40000	Malpaso, <i>g</i> , Colombia* (10000 pref. shares, 15s. paid)	1 0 0	—	¾ 1	Fully pd.
20000	Menzenberg, <i>c</i> , Honnef, Germany*	5 5 0	—	—	Fully pd.
50000	Montague & Waverley Gold Quartz Crushing Co., * N.Scot.	2 0 0	—	—	Allotment
5000	Monte Loretto, <i>g, c</i> , Nevada*	5 0 0	—	—	Fully pd.
15000	New Pacific, <i>g, s</i> , Italy*	0 7 6	—	¾ ¾	Jan. 1874
50000	New Quebrada, <i>g</i> , Colombia*	5 0 0	¾ ¾	¾ ¾	Fully pd.
20000	New Rosario, <i>s</i> , Mexico*	5 0 0	—	¾ ¾	Fully pd.
20000	New Zealand Kapanga, <i>g</i> , Coromandel*	5 0 0	—	¾ ¾	Fully pd.
10000	Newfoundland, * <i>1</i>	10 0 0	—	—	Fully pd.
20000	North American, <i>g</i> *	4 0 0	—	—	Fully pd.
50000	Panuelillo, <i>c</i> , Chili*†	4 0 0	—	¾ 1	Fully pd.
20000	Pastorena United, <i>g</i> , Italy*†	3 0 0	—	—	Fully pd.
50000	Rio de la Plata, Colombia (40000 issued)	1 0 0	—	¾ ¾	Fully pd.
10000	Rio Tinto, <i>g</i> , Huelva, Spain	1 0 0	—	8 9	Jan. 1873
10000	Rossa Grande, <i>g</i> , Brazil*† (£1 shares)	0 19 ¾	—	¾ ¾	July 1872
32500	Ruby Consolidated, <i>s</i> , Nevada*	10 0 0	—	—	Fully pd.
30000	Russia, <i>c</i> , Orenburg and Uta*†	10 0 0	—	¾ ¾	Fully pd.
25000	San Pedro, <i>c</i> , Chili*	2 0 0	—	—	Fully pd.
60000	Santa Barbara, * <i>g</i> , Brazil (10000 new 12s. sh. 2s. 6d. pd.)	0 9 6	—	¾ ¾	Mar. 1872
10000	Silver Plume, <i>s</i> , Colorado*	1 0 0	—	—	Fully pd.
37500	Snowdrift, <i>s</i> , Colorado*	2 0 0	—	—	Fully pd.
253000	St. John del Rey*† (L5 stock and its multiples can be dealt in)	—	252 ¾	250 260	* Stock
21000	St. Lawrence, <i>g</i> , California*	5 0 0	—	—	Fully pd.
30000	Tecoma, <i>s</i> , Utah*	10 0 0	—	¾ ¾	Fully pd.
20000	Thornhill Ref., <i>g</i> , Australia*	1 0 0	—	¾ ¾	Fully pd.
3811	Union Mexican, <i>c</i> , Mexico*†	28 0 0	—	¾ ¾	Aug. 1866
15000	Utah, <i>c, s, 1</i> , Utah*	1 0 0	—	¾ ¾	Fully pd.
25000	Utah Valley (London)*, <i>g</i> , Australia (25,000 sh. 15s. pd.)	1 0 0	—	¾ ¾	Fully pd.
75000	Yorke Peninsula, <i>c</i> , South Australia*	1 0 0	—	¾ ¾	Fully i.d.
40000	Yorke Peninsula, <i>c</i> , South Australia Preference	1 0 0	—	—	Fully pd.